

GOVERNMENT OF INDIA

DEPARTMENT OF ARCHAEOLOGY

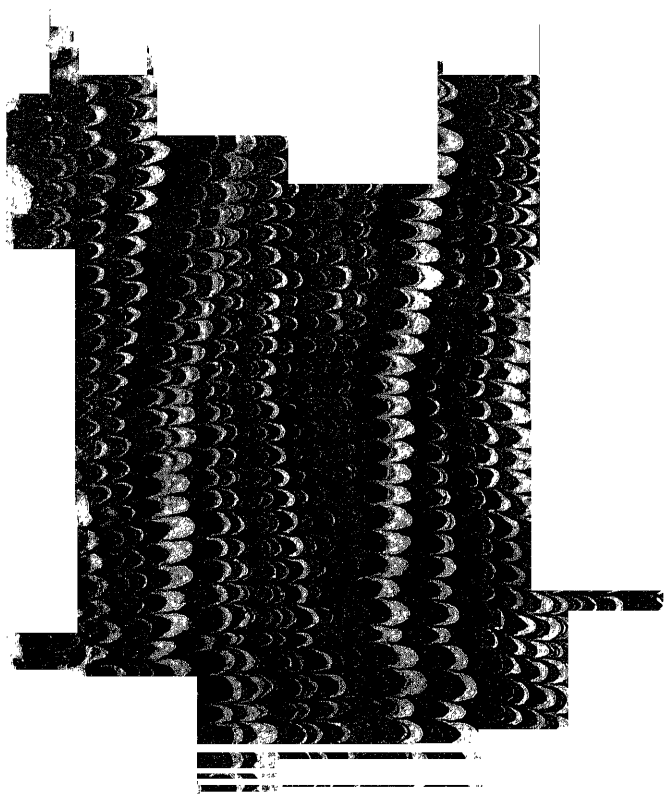
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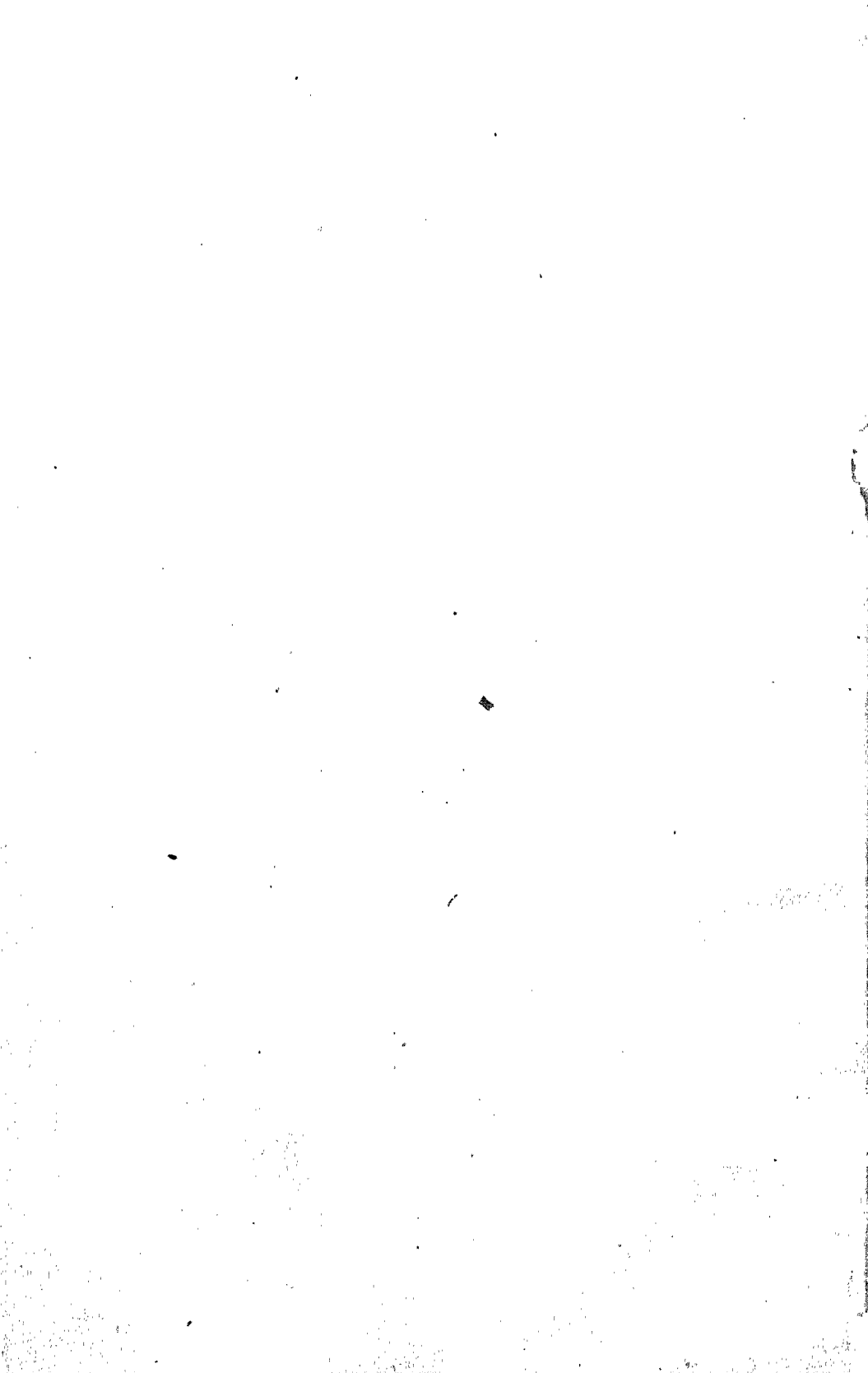
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PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL.

EDITED BY

THE HONORARY SECRETARIES.



JANUARY TO DECEMBER,

1897.

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LIST OF MEMBERS  
OF THE  
ASIATIC SOCIETY OF BENGAL.  
ON THE 31ST DECEMBER, 1896.

LIST OF OFFICERS AND MEMBERS OF COUNCIL  
OF THE ASIATIC SOCIETY OF BENGAL  
FOR THE YEAR 1896.

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*President :*

A. Pedler, Esq., F.R.S.

*Vice-Presidents :*

Sir A. W. Croft, M.A., K.C.I.E.

Colonel J. Waterhouse, B.S.C.

Dr. A. F. R. Hoernle.

*Secretaries and Treasurer :*

Dr. G. A. Grierson, C.S., C.I.E.

Dr. A. W. Alcock, C.M.Z.S.

F. Finn, Esq., B.A.

C. R. Wilson, Esq., M.A.

Pandit Haraprasād Shāstri, M.A.

C. Little, Esq., M.A.

*Other Members of Council :*

Bābu Pratāpachandra Ghosha, B.A.

Dr. D. D. Cunningham, F.R.S., C.I.E.

C. L. Griesbach, Esq., C.I.E., F.G.S.

Dr. G. Ranking, M.D.

T. H. Holland, Esq., F.G.S.

Dr. G. Watt, C.I.E.

The Hon. Mr. Justice Amīr Āli, C.I.E.

Dr. P. K. Ray.

## LIST OF ORDINARY MEMBERS.

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R. = Resident. N. R. = Non-Resident. A. = Absent. N. S. = Non-Subscribing.  
L. M. = Life Member. F. M. = Foreign Member.

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N. B.—Members who have changed their residence since the list was drawn up are requested to give intimation of such a change to the *Secretaries*, in order that the necessary alteration may be made in the subsequent edition. Errors or omissions in the following list should also be communicated to the *Secretaries*.

Members who are about to leave India and do not intend to return are particularly requested to notify to the *Secretaries* whether it is their desire to continue Members of the Society; otherwise, in accordance with Rule 40 of the By-Laws, their names will be removed from the list at the expiration of three years from the time of their leaving India.

Date of Election.		
1896 Mar. 4.	R.	Abdul Karim, Maulvie, B. A. <i>Calcutta</i> .
1894 Sept. 27.	N.R.	Abdul Wali, Maulvie. <i>Saalkapa, Jessore District</i> .
1895 Mar. 6.	R.	Abdur Rahman, A. F. M., Judge, Court of Small Causes. <i>Calcutta</i> .
1895 May 1.	N.R.	Abdus Salam, Maulvie, M. A. <i>Brahmanbaria, Tipperah</i> .
1888 Feb. 1.	F.M.	Adamson, Major Charles Henry Ellison, M. S. C. <i>Europe</i> .
1895 Aug. 29.	A.	Agnew, Henry De Courcy. <i>Europe</i> .
1860 July 4.	N.R.	Ahmad Khān, The Hon. Maulvie Sir Sayid, Bahadur, K. C. S. I. <i>Aligarh</i> .
1888 April 4.	R.	Ahmud, Shams-ul-ulama Maulvie, Arabic Professor, Presidency College. <i>Calcutta</i> .
1888 Feb. 1.	A.	Alcock, Surgeon-Captain Alfred William, M. B. <i>Europe</i> .
1884 Mar. 5.	L.M.	Ali, Sir Ali Qadr Syud Hassan, Nawāb Bahadur, K. C. I. E. <i>Murshedabad</i> .
1885 Mar. 4.	N.R.	Ali Bilgrāmi, Sayid, B. A., A. R. S. M., F. G. S. <i>Hyderabad</i> .
1874 June 3.	R.	Amir Ali, The Hon., C. I. E., M. A. Barrister-at-Law, Judge, High Court. <i>Calcutta</i> .
1865 Jan. 11.	F.M.	Anderson, John, M. D., F. R. S., F. L. S. <i>Europe</i> .
1884 Sept. 3.	R.	Anderson, J. A. <i>Calcutta</i> .
1893 Aug. 31.	R.	Anderson, Dr. A. R. S. <i>Calcutta</i> .
1892 Jan. 6.	R.	Arnold, Henry Kerchever Walter. <i>Calcutta</i> .
1890 July 2.	A.	Arnold, Thomas Walker, B. A., M. R. A. S. <i>Europe</i> .

Date of Election.		
1872 April 3.	N.R.	Ashān-ullah, Nawāb, Khan Bahadur. <i>Dacca.</i>
1877 July 4.	R.	Ashgar Āli Diler Jang, Nawāb Sayid, Khan Bahadur, c. s. i. <i>Calcutta.</i>
1889 Aug. 29.	N.R.	Aziz-ud-din Ahmad, Deputy Magistrate. <i>Jaunpur.</i>
1870 Feb. 2.	L.M.	Baden-Powell, Baden Henry, c. s., c. i. m. <i>Europe.</i>
1891 Mar. 4.	N.R.	Baillie, D. C., c. s. <i>Naini Tal.</i>
1892 Aug. 3.	A.	Baker, Lieutenant Donald. <i>Europe.</i>
1891 April 1.	F.M.	Baker, E. C. S. <i>Europe.</i>
1889 May 1.	R.	Banerji, The Hon. Gurudās, M. A., D. L., Judge, High Court. <i>Calcutta.</i>
1896 Mar. 4.	N.R.	Banerji, Satish Chandra, M. A. <i>Allahabad.</i>
1869 Dec. 1.	L.M.	Barker, R. A., M. D. <i>Europe.</i>
1885 Nov. 4.	R.	Barman, Dāmudar Dās. <i>Calcutta.</i>
1877 Jan. 17.	N.R.	Barman, Kishor Kumār Rādhā Dev, Juvraj of Hill Tipperah. <i>Tipperah.</i>
1894 Sept. 27.	R.	Basu, Nagendra Natha. <i>Calcutta.</i>
1893 April 5.	N.R.	Batabyal, Umes Chunder, c. s. <i>Bogra.</i>
1864 Sept. 7.	A.	Beames, John, c. s. <i>Europe.</i>
1895 July 3.	L.M.	Beatson-Bell, N. D., c. s. <i>Backergunge.</i>
1878 Sept. 25.	A.	Beighton, T. D., c. s. <i>Europe.</i>
1876 Nov. 15.	F.M.	Beveridge, Henry, c. s. <i>Europe.</i>
1896 May 6.	R.	Bhaduri, Aghore Chandra. <i>Calcutta.</i>
1878 Oct. 4.	R.	Bhakta, Krishna Gopāl. <i>Calcutta.</i>
1892 April 6.	N.R.	Bhattacharjee, Janaki Nath. <i>Berhampur.</i>
1879 Mar. 5.	A.	Biddulph, Col. J., B. S. C. <i>Europe.</i>
1884 Feb. 6.	A.	Bigg-Wither, Major A. C., B. A., A. I. C. E. <i>Europe.</i>
1859 Aug. 3.	L.M.	Blanford, W. T., A. R. S. M., F. R. S., F. G. S., F. R. G. S., F. Z. S. <i>Europe.</i>
1893 Feb. 1.	N.R.	Bodding, The Rev. P. O. <i>Rampore Haut.</i>
1885 Mar. 4.	R.	Bolton, C. W., c. s. <i>Calcutta.</i>
1896 Mar. 4.	N.R.	Bompas, C. H. <i>Chaubasa.</i>
1895 July 3.	N.R.	Bonham-Carter, N., c. s. <i>Mozufferpur.</i>
1890 July 2.	R.	Bonnerjee, Womes Chunder, Barrister-at-Law, Middle Temple. <i>Calcutta.</i>
1893 Mar. 1.	R.	Bose, Bhupendra Nath, Solicitor. <i>Calcutta.</i>
1895 Mar. 6.	A.	Bose, J. C., M. A., Bengal Education Service. <i>Europe.</i>
1880 Nov. 3.	N.R.	Bose, Pramatha Nath, B. Sc., F. G. S., Geological Survey of India. <i>Asansol.</i>
1890 Dec. 3.	N.R.	Bose, Rai Nali Naksha, Bahadur, Chairman, Burdwan Municipality. <i>Burdwan.</i>
1895 April 3.	N.R.	Bourdillon, J. A., c. s. <i>Bankipur.</i>
1876 May 4.	A.	Bradshaw, Surgeon-Major-General A. F., M. D., C. B. <i>Europe.</i>
1860 Mar. 7.	L.M.	Brandis, Sir Dietrich, K. C. I. E., PH. D., F. I. S., F. R. S. <i>Europe.</i>
1887 May 4.	R.	Burāl, Nobinchānd, Solicitor. <i>Calcutta.</i>
1896 Jan. 8.	N.R.	Burn, Richard, c. s. <i>Kasia, Gorakhpur.</i>

Date of Election.		
1862 Feb. 5.	L.M.	Bysack, Gaurdās. <i>Calcutta.</i>
1896 Jan. 8.	R.	Caddy, Dr. Arnold. <i>Calcutta.</i>
1879 April 2.	R.	Calcutta, The Rt. Rev. the Lord Bishop of. <i>Calcutta.</i>
1895 July 3.	A.	Carey, H. D., c. s. <i>Europe.</i>
1895 July 3.	N.R.	Carlyle, R. W., c. s. <i>Comillah.</i>
1893 Feb. 1.	R.	Caspersz, A. A., Barrister-at-Law. <i>Calcutta.</i>
1890 June 4.	N.R.	Chakravarti, Man Mohan, M. A., B. L., Deputy Magistrate. <i>Jajpur, Cuttack.</i>
1894 Aug. 1.	N.R.	Chatterjee, M. N., Professor of Philosophy, Maharaja's College. <i>Patalia.</i>
1893 July 5.	N.R.	Chatterjee, Radhikāraman. <i>Rungpur.</i>
1892 Aug. 3.	N.R.	Chaube, Behary Lall. <i>Bankipur.</i>
1893 Sept. 28.	N.R.	Chaudhuri, Banawarilala, B. sc. Edin. <i>Sherpur, Mymensingh.</i>
1861 Mar. 1.	N.R.	Chaudhuri, Harachandra, Zemindar. <i>Sherpur, Mymensingh.</i>
1880 Nov. 3.	R.	Chaudhuri, Rāi Khired Chandra. <i>Chinsurah.</i>
1885 Feb. 4.	N.R.	Chaudhuri, Raja Suryakānta, Bahadur. <i>Mymensingh.</i>
1890 Feb. 5.	A.	Chuckerbutty, A. Goodeve, c. s. <i>Europe.</i>
1880 Aug. 26.	F.M.	Clerk, Colonel Malcolm G. <i>Europe.</i>
1881 May 4.	N.R.	Cockburn, John, Asst. Sub-Deputy Opium Agent. <i>Allahabad.</i>
1889 Nov. 6.	R.	Colville, William Brown. <i>Calcutta.</i>
1890 Dec. 3.	R.	Connan, William, c. s. <i>Calcutta.</i>
1876 Mar. 1.	F.M.	Crawford, James, B. A., c. s. <i>Europe.</i>
1887 Aug. 25.	A.	Criper, William <sup>*</sup> Risdon, F. C. S., F. I. C., A. R. S. M. <i>Europe.</i>
1877 June 6.	R.	Croft, Sir A. W., M. A., K. C. I. E. Director of Public Instruction, Bengal. <i>Calcutta.</i>
1874 Mar. 4.	A.	Crombie, Surgeon-Major Alexander, M. D. <i>Europe.</i>
1895 July 3.	N.R.	Cumming, J. G., c. s. <i>Comillah.</i>
1873 Aug. 6.	R.	Cunningham, Surgeon-Major David Douglas, F. R. S., Honorary Surgeon to the Viceroy. <i>Calcutta.</i>
1873 Dec. 3.	N.R.	Dames, Mansel Longworth, c. s., Asst. Commissioner. <i>Dera Ghazi Khan.</i>
1892 Mar. 2.	N.R.	Das, Gopal Ballabh, M. A. <i>Cuttack.</i>
1896 Mar. 4.	R.	Das-Gupta, J. N., B. A., Barrister-at-Law. <i>Chinsurah.</i>
1865 June 7.	N.R.	Dās, Raja Jaykrishna, Bahadur, c. s. I. <i>Moradabad.</i>
1879 April 7.	N.R.	Dās, Rām Saran, M. A., Secy., Oudh Commercial Bank, Limited. <i>Fyzabad, Oudh.</i>
1893 Nov. 1.	N.R.	Dē, B, c. s. <i>Balasore.</i>
1885 May 6.	N.R.	Dē, Raja Baikuntanāth, Bahadur. <i>Balasore.</i>



Date of Election.		
1895 Sept. 19.	N.R.	De, Kiran Chandra, c. s. <i>Ranaghat.</i>
1895 Dec. 4.	N.R.	Delmerick, Charles Swift. <i>Budaon.</i>
1893 Mar. 1.	F.M.	Deussen, Dr. Paul. <i>Europe.</i>
1896 Jan. 8.	N.R.	Dowhurst, R. Paget. <i>Orai, N.-W. P.</i>
1886 June 2.	R.	Doyle, Patrick, C. E., M. R. I. A., M. I. C. E. I., F. R. A. S., F. R. S. E., F. G. S., F. R. Met. S., L. S. (Exam.), M. Lond. Math. Soc., F. S. S., Fel. San. Inst., M. Aus. Inst. M. E. <i>Calcutta.</i>
1892 Sept. 22.	R.	Drury, Dr. F. J. <i>Calcutta.</i>
1889 Jan. 2.	N.R.	Dudgeon, Gerald Cecil, <i>Nunkab, W. Doars.</i>
1879 Feb. 5.	A.	Duthie, J. F. <i>Europe.</i>
1892 Jan. 6.	N.R.	Dutt, Gerindranath. <i>Hatwa.</i>
1877 Aug. 30.	R.	Dutt, Kedārānāth. <i>Calcutta.</i>
1892 Aug. 25.	R.	Dutt, Narsingh. <i>Howrah.</i>
1890 Sept. 25.	N.R.	Dutt, Romesh Chunder, c. s., Barrister-at-Law, Middle Temple. <i>Cuttack.</i>
1870 Mar. 9.	L.M.	Edinburgh, H. R. H. The Duke of. <i>Europe.</i>
1871 Dec. 2.	N.R.	Eliot, J., M. A., Meteorological Reporter to the Govt. of India. <i>Simla.</i>
1894 Dec. 5.	R.	Finn, Frank, B. A. <i>Calcutta.</i>
1886 April 7.	A.	Fleet, John Faithfull, c. s., C. I. E. <i>Europe.</i>
1893 May 3.	A.	Forbes, Major H. F. Gordon. <i>Europe.</i>
1892 May 4.	A.	Forrest, G. W., B. A., <i>Europe.</i>
1876 July 5.	N.R.	Foulkes, The Rev. Thos., F. L. S., M. R. A. S., F. R. G. S. <i>Salem, Madras Presidency.</i>
1893 Jan. 11.	N.R.	Gait, E. A., c. s. <i>Shillong.</i>
1880 April 7.	N.R.	Gajapati, Sir Ananda Rām, K. C. I. E., Raja of Vizianagram. <i>Vizianagram.</i>
1859 Aug. 3.	L.M.	Gastrell, General James Eardley. <i>Europe.</i>
1889 Jan. 2.	R.	Ghose, Jogendrachandra, M. A., B. L. <i>Calcutta.</i>
1889 Mar. 6.	R.	Ghosha, Bhupendra Sri. <i>Calcutta.</i>
1869 Feb. 3.	R.	Ghosha, Pratāpachandra, B. A. <i>Calcutta.</i>
1895 April 3.	R.	Gilliland, J. H., Bengal Education Service. <i>Calcutta.</i>
1890 Aug. 6.	R.	Goethals, The Most Rev. Paul, D. D., S. J., Arch- bishop. <i>Calcutta.</i>
1861 Feb. 5.	N.S.	Godwin-Austen, Lieut.-Colonel H. H., F. R. S., F. Z. S., F. R. G. S. <i>Europe.</i>
1896 Nov. 4.	N.R.	Grant, A. J. <i>Wana, Waziristan.</i>
1892 Aug. 25.	N.R.	Greeven, R., c. s. <i>Naini Tal.</i>
1876 Nov. 15.	N.R.	Grierson, Dr. George Abraham, c. s., C. I. E. <i>Banki- pur.</i>
1885 Dec. 2.	A.	Griesbach, C. L., C. I. E., F. G. S. <i>Europe.</i>
1888 July 4.	R.	Gupta, Rajanikānta. <i>Calcutta.</i>

Date of Election.		
1892 Jan. 6.	N.R.	Haig, Lieutenant Wolseley. <i>Yeotmal, Berar.</i>
1883 Jan. 3.	N.R.	Harding, Francis Henry, B. A., C. S. <i>Shahabad.</i>
1890 June 4.	A.	Heilgers, Robert Philip, Consul for H. I. M. the Emperor of Austria and Hungary, Knight of the Imperial Order of the Iron Crown, Commandeur Ordre Impériale de Medjidié, F. R. G. S., F. R. S. S. <i>Europe.</i>
1875 Mar. 3.	N.R.	Hendley, Brigade-Surgeon Lt.-Col. Thomas Holbein, C. I. E. <i>Jeypur.</i>
1890 April 2.	A.	Hickson, F. G. <i>Europe.</i>
1892 Aug. 3.	N.R.	Hill, Samuel Charles. <i>Dacca.</i>
1872 Dec. 5.	R.	Hoernle, A. F. R., PH. D., Principal of the Calcutta Madrasa.
1878 Mar. 6.	N.R.	Hoey, Dr. W., C. S. <i>Gorakhpur.</i>
1886 June 2.	R.	Hogg, Alexander. <i>Calcutta.</i>
1891 July 1.	R.	Holland, Thomas H., F. G. S. Geological Survey of India. <i>Calcutta.</i>
1884 Mar. 5.	N.R.	Hooper, John, C. S., Secretary, Board of Revenue. <i>Allahabad. N.-W. P.</i>
1873 Jan. 2.	L.M.	Houstoun, G. L., F. G. S. <i>Europe.</i>
1863 Jan. 15.	A.	Howell, Mortimer Sloper, C. S., C. I. E. <i>Europe.</i>
1884 May 2.	N.R.	Hussein, Sayid, B. A., Secy. to Nizam of Hyderabad's Council. <i>Hyderabad.</i>
1890 Dec. 3.	N.R.	Hyde, The Rev. Henry Barry, M. A. <i>Chaplain, Outack.</i>
1866 Mar. 7.	F.M.	Irvine, William, C. S. <i>Europe.</i>
1895 Dec. 4.	N.R.	Kennedy, J., C. S. <i>Commilla.</i>
1882 Mar. 1.	N.R.	Kennedy, Pringle, M. A. <i>Mozufferpur.</i>
1874 Dec. 2.	N.R.	Khudā Baksh, Maulvie, Khan Bahadur. <i>Bankipur.</i>
1867 Dec. 4.	R.	King, Brigade-Surgeon George, C. I. E., M. B., F. L. S., Supdt., Royal Botanic Garden. <i>Sibpur.</i>
1881 Mar. 2.	F.M.	King, Lucas White, B. A., LL. B., C. S. <i>Europe.</i>
1896 Aug. 27.	R.	Konstam, E. M., I. C. S. <i>Calcutta.</i>
1896 July 1.	R.	Kuchler, E. W., M. A. <i>Calcutta.</i>
1891 Feb. 4.	N.R.	Kupper, The Hon. Lala Bunbehari. <i>Burdwan.</i>
1893 July 1.	R.	Laharry, S. C. <i>Ohinsurah.</i>
1887 May 4.	L.M.	Lanman, Charles R., Corresponding Secretary of the American Oriental Society, Professor of Sanskrit in Harvard College. <i>Cambridge, Mass., U. S., America.</i>
1889 Mar. 6.	A.	LaTouche, Thomas Henry Digges, M. A. <i>Europe.</i>
1889 Nov. 6.	R.	Lee, W. A. <i>Calcutta.</i>
1889 Feb. 6.	R.	Little, C., M. A., Bengal Education Service. <i>Calcutta.</i>

Date of Election.		
1886 Sept. 30.	N.R.	Luson, Hewling, C. S. <i>Manbhoom.</i>
1869 July 7.	N.R.	Lyall, Charles James, M. A., LL. D., C. S. I., C. I. E. Chief Commissioner, C. P. <i>Nagpur.</i>
1892 Sept. 22.	R.	Lyell, George. <i>Calcutta.</i>
1870 April 7.	L.M.	Lyman, B. Smith. <i>Philadelphia, Pa., U. S., America.</i>
1868 Dec. 2.	A.	Macauliffe, Michael, B. A., C. S. <i>Europe.</i>
1896 Mar. 4.	N.R.	MacBaine, F., I. C. S. <i>Nowgong.</i>
1893 Jan. 11.	L.M.	MacLagan, E. D., M. A., C. S. <i>Europe.</i>
1891 Feb. 4.	N.R.	Macpherson, Duncan J., C. S. <i>Molihari.</i>
1896 Feb. 5.	A.	Macpherson, W. C. <i>Europe.</i>
1893 Aug. 31.	N.R.	Mahatha, Purmeshwar Narain. <i>Mozufferpur.</i>
1895 Sept. 19.	R.	Mahomed Abdul Kadar, Khan Bahadur. <i>Calcutta.</i>
1881 July 6.	R.	Mahomed Firukh Shāh, Prince. <i>Calcutta.</i>
1895 Aug. 29.	R.	Mahomed Gilani, Shams-ul-ulama Shaikh. <i>Calcutta.</i>
1886 Jan. 6.	N.R.	Mahomed Latif Khān, Sayid, Khan Bahadur. <i>Jullunder.</i>
1882 Aug. 2.	R.	Mahomed Yusoof, The Hon. Maulvie, Khan Bahadur. <i>Calcutta.</i>
1889 Jan. 2.	R.	Maliāb, Kumār Rameswār. <i>Howrah.</i>
1891 Aug. 27.	R.	Mallik, H. C. <i>Calcutta.*</i>
1893 July 5.	R.	Mangos, C. D. <i>Calcutta.</i>
1889 Mar. 6.	R.	Mann, John, M. A. <i>Calcutta.</i>
1893 Mar. 1.	A.	Marriott, C. R., C. S. <i>Europe.</i>
1892 April 6.	N.R.	Maynard, Surgeon-Captain F. P. <i>Ranchi.</i>
1886 Mar. 3.	L.M.	Mehtā, Rustomjee Dhunjeebhoy. <i>Calcutta.</i>
1895 July 3.	N.R.	Melitus, P. G., C. S. <i>Shillong.</i>
1884 Nov. 5.	N.R.	Middlemiss, C. S., B. A., Assistant Superintendent, Geological Survey of India. <i>Hasur, Salem Dt.</i>
1884 Sept. 3.	R.	Miles, William Harry. <i>Calcutta.</i>
1870 July 6.	R.	Miller, A. B., B. A., Barrister-at-Law, Official Trustee. <i>Calcutta.</i>
1874 May 6.	N.R.	Minchin, F. J. V. <i>Aska, Ganjam.</i>
1896 July 1.	R.	Misra, Rai Lakshmi Sanker, Bahadur. <i>Calcutta.</i>
1895 Mar. 6.	N.R.	Mitra, Rajeswar. <i>Camp via Jubbulpur.</i>
1890 Dec. 3.	N.R.	Mitra, Varadā Charana. Joint-Magistrate. <i>Farridpur.</i>
1894 July 4.	R.	Moir, Surgeon-Captain D. M., I. M. S. <i>Calcutta.</i>
1895 July 3.	N.R.	Monohan, J. G., C. S. <i>Sibsagar.</i>
1896 Aug. 27.	N.R.	Mudaliar, Dr. V. S. Balasundra. <i>Chamagiri.</i>
1864 Nov. 2.	N.R.	Muir, J. W., M. A., C. S. <i>Saharanpur.</i>
1885 July 1.	R.	Mukerjee, Nilmani, Principal, Sanskrit College. <i>Calcutta.</i>
1892 Mar. 2.	R.	Mukerjee, Nrisinha Chandra. <i>Calcutta.</i>
1867 Mar. 6.	R.	Mukerjee, The Hon. Raja Pearimohan, M. A., C. S. I. <i>Uttarpara.</i>

Date of Election.		
1894 Aug. 30.	R.	Mukerjee, Sibnarayan. <i>Uttarpara,</i>
1896 Aug. 27.	R.	Mukerjee, Syamdas. <i>Calcutta.</i>
1886 May 5.	R.	Mukhopādhyāya, Asutosh, M. A., D. L., F. R. A. S., F. R. S. E. <i>Calcutta.</i>
1892 Dec. 7.	R.	Mukhopādhyāya, Panchanana. <i>Calcutta.</i>
1896 April 1.	R.	Mullick, Sham Lall. <i>Calcutta.</i>
1896 Aug. 5.	N.R.	Munro, Thomas, M. <i>Calcutta.</i>
1887 May 4.	A.	Munro, Thomas R. <i>Europe.</i>
1885 June 3.	N.R.	Naemwoollah, Maulvie, Deputy Magistrate. <i>Saharanpur.</i>
1887 June 1.	N.R.	Narain, Rāo Govind Rāo. <i>Allahabad.</i>
1881 Nov. 2.	R.	Nicéville, L. de., F. E. S. <i>Calcutta.</i>
1889 Aug. 29.	L.M.	Nimmo, John Duncan. <i>Calcutta.</i>
1887 April 6.	F.M.	Noetling, Fritz, Ph. D. <i>Europe.</i>
1894 June 6.	N.R.	Nomani, Shams-ul-ulama Maulvie Muhammad, Professor of Arabic in the Muhammadan Oriental College. <i>Aligarh.</i>
1892 Oct. 27.	N.R.	Norvill, Dr. Frederic H. <i>Dibrugarh.</i>
1885 Feb. 4.	R.	Nyāyaratna, Mahāmahopādhyāya Mahesachandra, C. I. E. <i>Calcutta.</i>
1895 July 3.	R.	Oldham, C. E. A. W., C. S. <i>Calcutta.</i>
1879 Aug. 28.	A.	Oldham, Brigade-Surgeon C. F., F. R. G. S. <i>Europe.</i>
1883 Dec. 1.	R.	Oldham, R. D., A. R. S. M., F. G. S., Superintendent, Geological Survey of India. <i>Calcutta.</i>
1883 Aug. 30.	N.R.	Oliver, Edw. Emmerson, M. I. C. E. <i>Nagpur.</i>
1887 July 6.	N.R.	Oung, Moung Hla. <i>Rangoon.</i>
1880 Aug. 4.	L.M.	Pandia, Pandit Mohanlāl Vishnulāl, F. T. S., Prime Minister, Partabgarh State. <i>Rajputana via Mand- saur.</i>
1880 Jan. 7.	N.R.	Pargiter, Frederick E., B. A., C. S. <i>Outtack.</i>
1862 May 7.	L.M.	Partridge, Surgeon-Major Samuel Bowen, M. D. <i>Europe.</i>
1871 Dec. 6.	N.R.	Peal, S. E. <i>Sibsagar, Assam.</i>
1873 Aug. 6.	R.	Pedler, Alexander, F. R. S., Bengal Education Ser- vice. <i>Calcutta.</i>
1888 June 6.	L.M.	Pennell, Aubray Percival, B. A., C. S. <i>Rangoon.</i>
1881 Aug. 25.	R.	Percival, Hugh Melville, M. A., Bengal Education Service. <i>Calcutta.</i>
1877 Aug. 1.	N.R.	Peters, Surgeon-Major C. T., M. B. <i>Bombay.</i>
1889 Nov. 6.	N.R.	Phillott, Capt. D. C. <i>Kohat.</i>
1896 Jan. 8.	N.R.	Place, G., I. C. S. <i>Motihari.</i>
1889 Mar. 6.	R.	Prain, David, M. A., M. B., L. R. C. S., I. R. S. E., J. L. S. <i>Sibpur.</i>

Date of Election.		
1892 Aug. 3.	R.	Pramanick, Asutosh. <i>Calcutta.</i>
1889 Mar. 6.	N.R.	Prasad, Hanuman, Raes and Zemindar. <i>Chunar.</i>
1896 Sept. 25.	R.	Pringle, A. T. <i>Calcutta.</i>
1880 April 7.	N.R.	Rai, Bipina Chandra, B. L. <i>Noakhali.</i>
1895 Aug. 29.	N.R.	Rai, Jatindranath, M. A., B. L. <i>Talsi.</i>
1894 Aug. 30.	R.	Ranking, Surgeon-Lieutenant-Colonel George, M. D. <i>Calcutta.</i>
1895 Aug. 7.	R.	Ray, Mahendranath, M. A., B. L. <i>Howrah.</i>
1887 May 4.	R.	Rāy, Prasannakumār, D. Sc. (Lond. and Edin.) Professor, Presidency College. <i>Calcutta.</i>
1895 Aug. 29.	R.	Richardson, T. W., C. S. <i>Calcutta.</i>
1884 Mar. 5.	R.	Risley, H. H., B. A., C. S., C. I. E. <i>Calcutta.</i>
1889 June 5.	A.	Rowe, F. J., M. A. <i>Europe.</i>
1890 Mar. 5.	N.R.	Roy, Maharaja Girjanath. <i>Dinagepur.</i>
1895 Mar. 6.	R.	Roy, P. C., Bengal Education Service. <i>Calcutta.</i>
1888 June 6.	R.	Roy, Peary Mohun. <i>Calcutta.</i>
1885 Mar. 4.	R.	Rustomjee, H. M. <i>Calcutta.</i>
1893 Aug. 2.	R.	Samajpati, Suresh Chundra. <i>Calcutta.</i>
1896 Aug. 27.	N.R.	Samman, H. F., I. C. S. <i>Golaghat.</i>
1887 June 1.	N.R.	Sandberg, The Rev. Graham, B. A., Barrister-at-Law, Inner Temple. Chaplain. <i>Subathu.</i>
1867 April 3.	R.	Sarkār, Dr. Mahendralāl, C. I. E. <i>Calcutta.</i>
1885 Mar. 4.	R.	Sarvādhikāri, Rāj Kumār, Rai Bahadur. <i>Calcutta.</i>
1893 Jan. 11.	L.M.	Scindia, His Highness the Maharaja.
1874 July 1.	A.	Scully, Dr. John. F. C. S. <i>Europe.</i>
1896 April 1.	R.	Sen, The Hon'ble Guruprasad. <i>Calcutta.</i>
1886 Mar. 3.	N.R.	Sen, Hirālāl, Excise Department. <i>Darbhanga.</i>
1885 April 1.	R.	Sen, Narendranāth. <i>Calcutta.</i>
1885 April 1.	R.	Sen, Yadvnāth. <i>Calcutta.</i>
1885 Feb. 4.	R.	Shāstri, Pandit Haraprasād, M. A. <i>Calcutta.</i>
1891 June 3.	N.R.	Shillingford, Frederick Alexander. <i>Purneah.</i>
1889 Nov. 6.	N.R.	Simpson, Edmund James, L. R. C. P. E., F. L. P. S. G., L. M. G. E., Civil Surgeon. <i>Rai Bareilly.</i>
1887 April 6.	R.	Simpson, Dr. W. J., Health Officer. <i>Calcutta.</i>
1893 Mar. 1.	N.R.	Singh, Maharajah Kumara Sirdar Bharat, C. S. <i>Rai Bareilly.</i>
1880 June 2.	N.R.	Singh, Thākur Garuradhawaya Prasād, Raja of Beswan. <i>Beswan Fort, Aligarh.</i>
1878 Oct. 4.	N.R.	Singh, Raja Lachman. <i>Agra.</i>
1895 Aug. 29.	R.	Singh, Lachmi Nārāyan, M. A., B. L. <i>Calcutta.</i>
1877 June 6.	N.R.	Singh, H. H. the Hon. Maharaja Sir Luohmessur, Bahadur, K. C. I. E. <i>Darbhanga.</i>
1892 Mar. 2.	L.M.	Singh, The Hon. Raja Oodaypratab. <i>Binga.</i>
1889 Aug. 29.	N.R.	Singh, H. H. Prabhunarain, Bahadur, Maharaja of Benares.
1859 Aug. 3.	N.R.	Singh, H. H. the Hon. Maharaja Pratap Narsain. <i>Ajodhya, Oudh.</i>

Date of Election.		
1895 Aug. 29	N.R.	Singh, Rām Din. <i>Bankipur.</i>
1889 Nov. 6.	N.R.	Singh, The Hon. Raja Rameshwara, Bahadur. <i>Darbhanga.</i>
1894 Feb. 7.	N.R.	Singh, H. H. Raja Vishwanath, Bahadur, Chief of Chhatarpur.
1893 April 5.	N.R.	Sinha, Raja Bhupendra, Bahadur, Raja of Bijoypur. <i>Mirzapur.</i>
1894 July 4.	N.R.	Sinha, Kunwar Kushal Pal, M. A. <i>Narbi P. O. Agra District.</i>
1872 Aug. 5.	A.	Skrefsrud, The Rev. L. O. <i>Europe.</i>
1874 June 3.	N.R.	Smith, Vincent Arthur, C. S. <i>Gorakhpur.</i>
1891 Aug. 27.	N.R.	Stein, Dr. M. A. <i>Lahore.</i>
1895 July 5.	A.	Steinberg, A. F., C. S. <i>Europe.</i>
1868 June 3.	R.	Tagore, The Hon. Maharaja Sir Jotendra Mohun, Bahadur, K. C. S. I. <i>Calcutta.</i>
1893 Aug. 31.	N.R.	Tate, G. P., Survey of India. <i>Karachi.</i>
1865 Sept. 6.	A.	Tawney, C. H., M. A., C. I. B. <i>Europe.</i>
1884 May 5.	N.R.	Taylor, W. C., Settlement Officer. <i>Khurda.</i>
1878 June 5.	N.R.	Temple, Major R. C., S. C. <i>Rangoon.</i>
1875 June 2.	N.R.	Thibaut, Dr. G., Professor, Muir Central College. <i>Allahabad.</i>
1886 Aug. 4.	R.	Thomas, Robert Edmond Skyring. <i>Calcutta.</i>
1847 June 2.	L.M.	Thuillier, Major-Genl. Sir Henry Edward Landor, R. A., C. S. I., F. R. S. <i>Europe.</i>
1889 Mar. 6.	A.	Thuillier, Colonel H. R., R. E., Surveyor-General of India. <i>Europe.</i>
1891 Aug. 27.	N.R.	Thurston, Edgar. <i>Madras.</i>
1871 April 5.	F.M.	Trefftz, Oscar. <i>Europe.</i>
1861 June 5.	L.M.	Tremlett, James Dyer, M. A., C. S. <i>Europe.</i>
1893 May 3.	N.R.	Vandja, Raja Ram Chandra. <i>Mayurbhanga, District Balasore.</i>
1890 Feb. 5.	N.R.	Venis, Arthur, M. A., Former Boden Sanskrit Scholar, Oxford, Principal, Sanskrit College, Benares, Professor, Queen's College. <i>Benares.</i>
1885 May 6.	R.	Verdeau, Ivan. <i>Calcutta.</i>
1895 Dec. 4.	R.	Vidyabhushan, Harimohan. <i>Calcutta.</i>
1896 May 6.	R.	Vidyanidhi, Mahendranath. <i>Calcutta.</i>
1894 Sept. 27.	L.M.	Vost, Surgeon-Captain William. <i>Gonda.</i>
1895 July 5.	R.	Waddell, Dr. L. A. <i>Calcutta.</i>
1889 Nov. 6.	N.R.	Walsh, Surgeon-Major J. H. Tull. <i>Midnapur.</i>
1865 May 3.	R.	Waterhouse, Col. James, B. S. C., Assistant Surveyor-General, Survey of India. <i>Calcutta.</i>
1887 Oct. 6.	N.R.	Watson, Lieut. Edward Yerbury. <i>Belgaum.</i>
1874 July 1.	R.	Watt, Dr. George, C. I. B. <i>Calcutta.</i>
1892 Aug. 3.	R.	Whitehead, The Rev. Henry. <i>Calcutta.</i>

Date of Election.		
1896 Feb. 5.	N.R.	Williams, Surgeon-Captain Charles E. <i>Yamathin.</i>
1891 May 6.	R.	Wilson, Charles Robert, M. A., Bengal Education Service. <i>Calcutta.</i>
1892 Jan. 6.	R.	Woodburn, The Hon. J., C. S. <i>Calcutta.</i>
1894 Sept. 27.	R.	Woodroffe, John George, Barrister-at-Law. <i>Calcutta.</i>
1873 Aug. 6.	A.	Woodthorpe, Col. Robert Gossett, C. B., R. E. <i>Europe.</i>
1894 Aug. 30.	N.R.	Wright, Henry Nelson, C. S. <i>Allahabad.</i>

## SPECIAL HONORARY CENTENARY MEMBERS.

Date of Election.	
1884 Jan. 15.	Dr. Ernst Haeckel, Professor in the University of <i>Jena</i> .
1884 Jan. 15.	Charles Meldrum, Esq., M. A., F. R. S. <i>Mauritius</i> .
1884 Jan. 15.	A. H. Sayce, Esq., Professor of Comp. Philology. <i>Oxford</i> .
1884 Jan. 15.	Monsieur Emile Senart, Member of the Institute of France. <i>Paris</i> .
1884 Jan. 15.	Sir Monier Monier-Williams, <i>Knt.</i> , K. C. I. E., M. A., D. C. E., LL. D., Boden Prof. of Sanskrit. <i>Oxford</i> .

## HONORARY MEMBERS.

1848 Feb. 2.	Sir J. D. Hooker, K. C. S. I., C. B., M. D., D. C. L., F. R. S., F. G. S. <i>Kew</i> .
1860 Mar. 7.	Professor Max Müller. <i>Oxford</i> .
1860 Nov. 7.	Dr. Albrecht Weber. <i>Berlin</i> .
1875 Nov. 3.	Dr. O. Böhtlingk. <i>Leipzig</i> .
1879 June 4.	Prof. E. B. Cowell, D. C. L. <i>Cambridge</i> .
1879 June 4.	Dr. A. Günther, V. P. R. S. <i>London</i> .
1879 June 4.	Dr. J. Janssen. <i>Paris</i> .
1879 June 4.	Prof. P. Regnaud. <i>Lyons</i> .
1881 Dec. 7.	Lord Kelvin, D. C. L. <i>Glasgow</i> .
1883 Feb. 7.	W. T. Blanford, Esq., A. R. S. M., F. R. S., F. G. S., F. R. G. S., F. Z. S. <i>London</i> .
1883 Feb. 7.	Alfred Russell Wallace, Esq., F. L. S., F. R. G. S. <i>Parkstone, Dorsetshire</i> .
1894 Mar. 7.	Sir William Henry Flower, K. C. B., D. C. L. <i>London</i> .
1894 Mar. 7.	Dr. Edward Frankland, D. C. L., F. R. S. <i>Reigate</i> .
1894 Mar. 7.	Sir George Gabriel Stokes, Bart., F. R. S. <i>Cambridge</i> .
1894 Mar. 7.	Mahamahopādhyaya Chandra Kanta Tarkalankara. <i>Calcutta</i> .
1894 Mar. 7.	Professor Theodor Noeldeke. <i>Strassburg</i> .
1895 June 5.	Dr. G. Bühler. <i>Vienna</i> .
1895 June 5.	Lord Rayleigh. <i>London</i> .
1895 June 5.	Lt.-Genl., R. Strachey. <i>London</i> .
1895 June 5.	C. H. Tawney, M. A., C. I. E. <i>London</i> .
1896 Feb. 5.	Sir Joseph Lister, P. R. S.
1896 Feb. 5.	Professor Michael Foster, F. R. S.
1896 Feb. 5.	Professor F. Keilhorn.
1896 Feb. 5.	Professor C. R. Lanman.



## CORRESPONDING MEMBERS.

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Date of Election.	
1844 Oct. 2.	Macgowan, Dr. J. <i>Europe.</i>
1856 July 2.	Porter, The Rev. J. <i>Belfast.</i>
1862 Mar. 3.	Murray, A. <i>London.</i>
1866 May 7.	Schlagintweit, Prof. E. von. <i>Berlin.</i>

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## ASSOCIATE MEMBERS.

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1874 April 1.	Lafont, Fr. E., S. J., C. I. E. <i>Calcutta.</i>
1875 Dec. 1.	Bate, The Rev. J. D. <i>Europe.</i>
1875 Dec. 1.	Abdul Hai, Maulvie. <i>Calcutta.</i>
1882 June 7.	Giles, Herbert. <i>Europe.</i>
1883 Feb. 7.	Rodgers, C. J. <i>Europe.</i>
1884 Aug. 6.	Moore, F., F. R. S., F. L. S. <i>London.</i>
* 1885 Dec. 2.	Führer, Dr. A. <i>Lucknow.</i>
1886 Dec. 1.	Dās, Saratchandra, C. I. E. <i>Calcutta.</i>
1892 April 6.	Samasrami, Satyavrata. <i>Calcutta.</i>
1892 Dec. 7.	Brühl, P. J. <i>Sibpur.</i>

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LIST OF MEMBERS WHO HAVE BEEN ABSENT FROM  
INDIA THREE YEARS AND UPWARDS.\*

\* *Rule 40.*—After the lapse of 3 years from the date of a member leaving India, if no intimation of his wishes shall in the interval have been received by the Society, his name shall be removed from the List of Members.

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The following members will be removed from the next Member List of the Society, under the operation of the above Rule:—

Major A. C. Bigg-Wither, B. A.  
Major H. F. Gordon Forbes.  
C. H. Tawney, Esq., M. A., C. I. E.

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# LOSS OF MEMBERS DURING 1896.

## BY RETIREMENT.

Colonel M. M. Bowie.  
 W. Crooke, Esq., I. C. S.  
 Babu Sarat Chandra Chatterjee.  
 Raja Ramranjan Chuckerbutty.  
 Sir C. A. Elliott, K. C. S. I., C. I. E.  
 M. Finucane, Esq., I. C. S.  
 Dr. G. H. D. Gimlette.  
 J. J. D. LaTouche, Esq.  
 R. B. McCabe, Esq., I. C. S.  
 Colonel E. Mockler.  
 Lieut.-Col. E. H. Molesworth.  
 T. N. Mukerji, Esq.  
 P. Nolan, Esq., I. C. S.  
 Kumar Divendra Narain Roy.  
 Major J. Hayes Sadler, B. S. C.

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## BY DEATH.

### *Ordinary Members.*

O. G. Arthur, Esq., I. C. S.  
 Diego Ernest, Esq.  
 Manmohan Ghose, Esq.  
 The Hon. Prince Sir Jahan Qadr Muhammad Wahid Ali  
 Bahadur, K. C. I. E.  
 Babu Balai Chand Sinha.  
 Sir Sirdar Attar Singh Bahadur.  
 W. Swinhoe, Esq.

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### *Honorary Member.*

Dr. Reinhold Rost.

BY REMOVAL.

*Under Rule 40.*

Dr. E. H. Brown.

Dr. H. Martyn Clark.

Eustace John Kitts, Esq., C. S.

Colonel Sir William Francis Prideaux, K. C. I. E.

A. Mervyn Smith, Esq., C. E.

[APPENDIX.]

ABSTRACT STATEMENTS  
OF  
RECEIPTS AND DISBURSEMENTS  
OF THE  
ASIATIC SOCIETY OF BENGAL  
FOR  
THE YEAR 1896.

# STATEMENT

## *Asiatic Society*

### Dr.

#### To ESTABLISHMENT.

					Rs.	As.	P.	Rs.	As.	P.
Salaries	...	...	...	...	3,208	2	1			
Commission	...	...	...	...	448	5	6			
Pension	...	...	...	...	48	0	0			
								3,699	7	7

#### To CONTINGENCIES.

Stationery	...	...	...	...	77	3	0			
Lighting	...	...	...	...	49	8	0			
Taxes	...	...	...	...	819	0	0			
Postage	...	...	...	...	600	8	0			
Freight	...	...	...	...	27	6	0			
Meeting	...	...	...	...	81	0	0			
Miscellaneous	...	...	...	...	260	1	10			
								1,914	10	10

#### To LIBRARY AND COLLECTIONS.

Books	...	...	...	...	564	5	0			
Local Periodicals	...	...	...	...	16	0	0			
Binding	...	...	...	...	781	4	0			
Furniture	...	...	...	...	1	4	0			
								1,362	13	0

#### To PUBLICATIONS.

Journal, Part I ...	...	...	...	...	2,253	7	6			
Journal, Part II	...	...	...	...	1,373	13	6			
Journal, Part III	...	...	...	...	457	7	9			
Proceedings	...	...	...	...	790	12	6			
								4,875	9	3
To Printing charges of Circulars, Receipt-forms, &c.	...	...	...	...				136	8	0
„ Personal Account (Writes off and Miscellaneous)	...	...	...	...				188	9	6

#### To EXTRAORDINARY EXPENDITURE.

Auditor's fee	...	...	...	...	100	0	0			
Registration fee of the Society for 1896	...	...	...	...	5	0	0			
Catalogue of coins	...	...	...	...	581	0	0			
								686	0	0
Balance	...	...	...	...				1,55,923	2	9
Total Rs.	...	...	...	...				1,68,786	12	11

# No. 1. of Bengal.

## Cr.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last report	...	...				1,49,785	11	9
By CASH RECEIPTS.								
Publications sold for cash	...	...		74	8	3		
Interests on Investments	...	...		5,527	8	0		
Rent of rooms on the Society's ground floor	...	...		820	0	0		
Allowance from Government of Bengal for the publication of Anthropological and Cognate Subjects	...	...		2,000	0	0		
Ditto ditto Chief Commissioner of Assam	...	...		1,000	0	0		
Miscellaneous	...	...		322	15	3		
							9,744	15 6
By PERSONAL ACCOUNT.								
Admission fees	...	...		1,024	0	0		
Subscriptions	...	...		7,474	0	0		
Sales on credit	...	...		735	3	3		
Miscellaneous	...	...		22	14	5		
							9,256	1 8

Total Rs. ... 1,68,786 12 11

C. LITTLE,  
Honorary Secretary and Treasurer,  
Asiatic Society of Bengal.

Examined and found correct.  
MEUGENS, KING & SIMSON,  
Auditors.

# STATEMENT

## *Oriental Publication Fund in Account*

Dr.

To CASH EXPENDITURE.

				Rs.	As.	P.		Rs.	As.	P.
Printing charges	...	...	...	8,614	12	0				
Editing charges	...	...	...	8,947	8	0				
Salaries	...	...	...	1,163	10	8				
Freight	...	...	...	86	14	0				
Stationery	...	...	...	64	9	0				
Postage	...	...	...	276	3	3				
Commission on collecting bills	...	...	...	26	8	0				
Contingencies	...	...	...	11	0	6				
Advertisement	...	...	...	4	0	0				
								9,144	12	5
To Personal Account (Writes off and Miscellaneous)			...					1	8	0
Balance			...					12,542	13	1
Total Rs.			...					21,689	1	6

No. 2.

*with the Asiatic Society of Bengal.*

## Cr.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last report	...	...				10,988	13	0
	BY CASH RECEIPTS.							
Government allowance	...	...	9,000	0	0			
Publications sold for cash	...	...	481	0	9			
Advances recovered	...	...	62	10	8			
						9,543	11	0
	BY PERSONAL ACCOUNT.							
Sales on credit	...	...				1,156	9	6

Total Rs.	...	21,689	1	6
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G. LITTLE,  
Honorary Secretary and Treasurer,  
Asiatic Society of Bengal.

Examined and found correct.  
MEUGENS, KING & SIMSON,  
*Auditors.*



# STATEMENT

## *Sanskrit Manuscript Fund in Account*

Dr.

TO CASH EXPENDITURE.

				Rs.	As.	P.		Rs.	As.	P.
Salaries	...	...	...	1,181	0	0				
Travelling charges	...	...	...	598	12	0				
Purchase of manuscripts	...	...	...	1,675	8	0				
Notices by contract	...	...	...	429	0	0				
Postage	...	...	...	5	6	6				
Printing charges	...	...	...	1,081	11	0				
Contingencies	...	...	...	8	12	0				
								4,980	1	6
Balance	...	...	...					4,542	9	1
Total Rs.								9,522	10	7

No. 3.

*with the Asiatic Society of Bengal.*

Cr.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last report	...	...				6,279	15	4
BY CASH RECEIPTS.								
Government allowance	...	...	3,200	0	0			
Publications sold for cash	...	...	5	0	0			
						3,205	0	0
BY PERSONAL ACCOUNT.								
Sales on credit...	...	...				87	11	3
Total Rs.						9,522	10	7

C. LITTLE,

*Honorary Secretary and Treasurer,**Asiatic Society of Bengal.*

Examined and found correct.

MEUGENS, KING &amp; SIMSON,

*Auditors.*

# STATEMENT

## *Personal*

Dr.					
			Rs.	As.	P.
To Balance from last report	...	...	...	4,803	14 6
To CASH EXPENDITURE.					
Advances for purchase of Sanskrit MSS., &c.	...	...	9,256	1	8
To Asiatic Society	...	...	1,156	9	6
„ Oriental Publication Fund	...	...	37	11	3
„ Sanskrit MSS. Fund	...	...			
				10,450	6 5

Total Rs.	...	16,204 11 2
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No. 4.

*Account.*

Cr.

				Rs.	As.	P.	Rs.	As.	P.
By Cash Receipts	...	...	...	...			12,744	0	9
" Asiatic Society	...	...	...	188	9	6			
" Oriental Publication Fund	...	...	...	1	8	0			
								190	1 6

By Balance.	Due to the Society.			Due by the Society.			
	Rs.	As.	P.	Rs.	As.	P.	
Members	3,280	12	4	183	6	0	
Subscribers	0	0	0	96	10	6	
Employés	30	0	0	350	0	0	
Agents	169	2	6	0	0	0	
Miscellaneous	590	11	0	170	0	5	
	4,070	9	10	800	0	11	3,270 8 11

Total Rs. ... 16,204 11 2

C. LITTLE,  
*Honorary Secretary and Treasurer,*  
*Asiatic Society of Bengal.*

Examined and found correct.  
 MEUGENS, KING & SIMSON,  
*Auditors.*

# STATEMENT

## *Invest*

Dr.

						Nominal.			Actual.		
						Rs.	As.	P.	Rs.	As.	P.
To Balance from last report	...	...	...	...	...	1,59,800	0	0	1,60,023	11	8
,, Cash	...	...	...	...	...	5,000	0	0	5,059	9	6
Total Rs.	...	...	...	...	...	1,64,800	0	0	1,65,083	4	9

FUNDS.*	PERMANENT.						TEMPORARY.						TOTAL OF ACTUALS.		
	Nominal.			Actual.			Nominal.			Actual.					
	Rs.	As.	P.	Rs.	As.	P.	Rs.	As.	P.	Rs.	As.	P.	Rs.	As.	P.
Asiatic Society...	1,40,500	0	0	1,40,238	0	0	22,500	0	0	23,551	8	0	1,63,787	8	0
Trust Fund ...	1,300	0	0	1,295	12	9	...	...	...	...	...	..	1,295	12	9
	1,41,800	0	0	1,41,531	12	9	22,500	0	0	23,551	8	0	1,65,083	4	9

# STATEMENT

## *Trust*

Dr.

						Rs.	As.	P.
To Pension	...	...	...	...	...	48	0	0
,, Balance	...	...	...	...	...	1,343	3	10
Total Rs.	...	...	...	...	...	1,391	3	10

No. 3.

*ments.*

Cr.

	Nominal.			Actual.		
	Rs. As. P.			Rs. As. P.		
By Balance* ... ..	1,64,800	0	0	1,65,083	4	9
Total Rs. ...	1,64,800	0	0	1,65,083	4	9

C. LITTLE,  
Honorary Secretary and Treasurer,  
Asiatic Society of Bengal.

Examined and found correct.  
MEUGENS, KING & SIMSON,  
Auditors.

No. 6.

*Fund.*

Cr.

	Rs. As. P.		
	Rs. As. P.		
By Balance from last report ... ..	1,343	3	10
„ Interest on Investments ... ..	48	0	0
Total Rs. ...	1,391	3	10

C. LITTLE,  
Honorary Secretary and Treasurer,  
Asiatic Society of Bengal.

Examined and found correct.  
MEUGENS, KING & SIMSON,  
Auditors.

## STATEMENT

### *Cash*

Dr.					Rs. As. P.		
To Balance from last report	...	...	...	...	8,570	2	2
RECEIPTS.							
To Asiatic Society	...	...	...	...	9,744	15	0
„ Oriental Publication Fund	...	...	...	...	9,543	11	0
„ Sanskrit MSS. Fund	...	...	...	...	3,205	0	0
„ Personal Account	...	...	...	...	12,744	0	9
„ Trust Fund	...	...	...	...	48	0	0
Total Rs.					38,855	13	5

## STATEMENT

### *Balance*

Dr.					Rs. As. P.		
To Cash	...	...	...	...	5997	15	1
„ Investments	...	...	...	...	1,65,083	4	9
„ Personal Account	...	...	...	...	3,270	8	11
Total Rs.					1,74,351	12	9

No. 7.

*Account.*

Cr.

					Rs. As. P.		
EXPENDITURE.							
By Asiatic Society	...	...	...	...	12,675	0	8
" Oriental Publication Fund	...	...	...	...	9,144	12	6
" Sanskrit MSS. Fund	...	...	...	...	4,980	1	5
" Personal Account	...	...	...	...	950	6	3
" Trust Fund	...	...	...	...	48	0	0
" Investments	...	...	...	...	5,059	9	6
Balance	...	...	...	...	5,997	15	1
Total Rs.					38,855	13	5

C. LITTLE,  
*Honorary Secretary and Treasurer,*  
*Asiatic Society of Bengal.*

Examined and found correct.

MEUGENS, KING & SIMSON,  
*Auditors.*

No. 8.

*Sheet.*

Cr.

					Rs. As. P.		
By Asiatic Society	...	...	...	...	1,55,923	2	9
" Oriental Publication Fund	...	...	...	...	12,542	13	1
" Sanskrit MSS. Fund	...	...	...	...	4,542	9	1
" Trust Fund	...	...	...	...	1,343	3	10
Total Rs.					1,74,351	12	9

C. LITTLE,  
*Honorary Secretary and Treasurer,*  
*Asiatic Society of Bengal.*

Examined and found correct.

MEUGENS, KING & SIMSON,  
*Auditors.*



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PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR JANUARY, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 6th January, 1897, at 9 P.M.

DR. A. F. R. HOERNLE, Vice-President, in the chair.

The following members were present:—

Dr. A. R. S. Anderson, Rai Çarat Candra Das, F. Finn, Esq., A. Kadar, Esq., Kumār Rāmēçvar Māliāb, W. H. Miles, Esq., L. de Nicéville, Esq., R. D. Oldham, Esq., Dr. D. Prain, A. T. Pringle, Esq., Paṇḍit Mahēndra Nath Vidyānidhi, Dr. L. A. Waddell, C. R. Wilson, Esq.

Visitor:—Dr. Niçikānta Chatterji.

The minutes of the last meeting were read and confirmed.

Thirty-six presentations were announced, details of which are given in the Library List appended.

The following gentlemen duly proposed and seconded at the last Meeting of the Society were ballotted for and elected Ordinary Members:—

Dr. Amritalal Sircar, L.M.S.

Pandit Tulsi Ram Misra, M.A.

“Shams-ul-ulama,” “Khan Bahadur” M. Zakauallah.

The following gentlemen are candidates for election at the next Meeting:—

Walter Weber, Esq., 8, Chowringhee Road, Calcutta, proposed by L. de Nicéville, Esq., seconded by Dr. G. Ranking.

H. H. Hayden, Esq., proposed by T. H. Holland, Esq., seconded by F. Finn, Esq.

Dr. Th. Bloch, proposed by Dr. A. F. R. Hoernle, seconded by C. R. Wilson, Esq.

C. W. Peake, Esq., proposed by C. R. Wilson, Esq., seconded by G. W. Küchler, Esq.

The following gentlemen have expressed a wish to withdraw from the Society :—

C. A. Oldham, Esq., I.C.S.

Dr. V. S. Balasundra Mudaliar.

The Secretary reported the death of the following members :—

Raja Lachman Singh.

Sardar Sir Atar Singh, K.C.I.E.

The Chairman announced that he had received two essays in competition for the Elliott Prize for Scientific Research for the year 1896.

Dr. Hoernle read reports on the following finds of Treasure Trove coins :—

1. REPORT ON 452 old coins forwarded by the Deputy Commissioner of Delhi, with his No. 242, dated  $\frac{12}{19}$ th March, 1896.

The Deputy Commissioner's letter only mentions 451 rupees, which are said to have been found in the village Khirki in the Delhi District: no further details are given. With these rupees, however, I found a copper coin, though how it got there, I do not know.

All the 451 silver coins are rupees of Moghul emperors, ranging from Akbar the Great down to Akbar II, of more exactly from the year 1599 A.D. (4th Ilahi year of Akbar I) to 1810 A.D. (or 1225 Hijrah). In this respect this hoard of coins is a curiosity.

The following is a detailed statement of the Rupees :—

I. AKBAR I, 963-1014 H. = 1556-1605 A.D.

Ilahi rupees of the Ahmadabad mint and the year

44, like Brit. Mus. Cat., No. 178 ... 2

II. JAHANGIR, 1014-1037 H. = 1605-1627 A.D.

Variety 1: like Br. Mus. Cat., No. 491, Lāhōr,  
1036, 22 ... 1

Variety 2: like Br. Mus. Cat., No. 467, Patnah,  
1027, month Ardibihist ... 1

III. SHAH JAHAN, 1037-1068 H. = 1628-1658 A.D.

Type I: two square areas; variety 1, lined areas;

mostly in indifferent condition: mints Ahmadābād (1 coin), Akbarābād (2), Akbarnagar (1), Bhakar (2), Barhānpur (1), Jūnahgarh (1), Kambāyat (1), Lāhōr (5, one dated 1061), Mihrpur (1), Multān (6, two dated 1046, 1061), Patnah (10, one dated 1042), Qandahār (1), Sūrat (10). Illegible mints and dates 46. One, marked with a dagger, of the 24th regnal year, but date and mint illegible: very rare.

Total ... .. 89

Variety 2: dotted areas; mint illegible, date 106\* ... .. 1

Type II: one round area: dates illegible; mints Lāhōr and Multān ... .. 3

Type III: two lozenge areas: mint and date illegible ... .. 1

Type IV: one lozenge area: like Br. Mus. Cat., No. 621, mint illegible, date 1042... .. 3

Type V: lettered surfaces: Ahmadābād 1037, Akbarābād (2 coins, one dated 1040), Barhānpur (1), Golkondah (1, rare), Lāhōr (date 1038), Sūrat (4, dates 1038, 1040, 1041, one illegible,) Tattah (dates 1039, 10\*9, 1041, 1060, 1064, 1068) ... .. 16

— 113

#### IV. AURANGZĪB, 1069–1118 H.=1659–1707 A.D.

Type I: lettered surfaces: variety 1, date in top line, over name: Ajmīr (3) 1097<sup>2</sup>, 1106, Akbarābād (2) 1097, 1107, Alamgirpur (1), Aurangābād (2) 1074, 1076, Azīmābād (2) 1116, Bareli (5) 1108, 1109, 1110<sup>3</sup>, Barhānpur (1) 1101, Cināpatan (1), Etāwā (26) 1092, 1095, 1096, 1098, 1099, 1100, 1101, 1103<sup>5</sup>, 1104<sup>2</sup>, 1105, 1106<sup>6</sup>, 1107<sup>3</sup>, 1108, 1116; Golkonda (9), Jūnahgarh (1) 1101, Khujistah Bunyād (1) 1115, Kambāyat (3), Katak (1), Kulbarga (1), Lāhōr (16) 1090, 1093<sup>2</sup>, 1095, 1099, 1101, 1102, 1103, 1106, 1107<sup>2</sup>, Lakhnau (3), Multān (8) 1073, 1076, 1077, 1090, 1093, 1098, 1103, 1114, Murshidābād (3) 1105, 1115, 1118, Nārnōl, (5) 1098, 1099, 1102, 1105, 1106; Patnah (2) 1089, Shāhjahānābād (32) 1077<sup>2</sup>, 1085, 1090, 1096, 1097<sup>7</sup>, 1098,

1099 <sup>u</sup> , 1101, 1102, 1103 <sup>2</sup> , 1104, 1105, 1107, 1111, Sūrat (37) 1090, 1092 <sup>2</sup> , 1093 <sup>2</sup> , 1094 <sup>2</sup> , 1095 <sup>2</sup> , 1097 <sup>2</sup> , 1098 <sup>2</sup> , 1099, 1100, 1101 <sup>2</sup> , 1102 <sup>2</sup> , 1104 <sup>2</sup> , 1105 <sup>2</sup> , 1107, 1111, 1112, 1117, Tattah (6) 1090, 1107, 1116, Ujain (1) ...	...	...	177
Variety 2: date in top line, under name: 'Alamgīrnagar (1) 1083, Barēli (1) 1103, Lakhnau (2) 1089, 1098, Sūrat (3) 1089, 1096 ...	...	...	7
Variety 3: date in second line: Sūrat (1) 1071, 1076, 1084, 1085, 1088, 1091, 1094 <sup>2</sup> , 1095, 1098 <sup>2</sup> , 1106 <sup>2</sup> , 1108, 1109 <sup>2</sup> , Tattah (2) 1081 ...	...	...	19
Variety 4: date in third line: Aḥmadābād (5) 1074, 1075, 1086, 1091, 1107, Akbarābād (2) 1071, 1101, Golkonda (6) 1076 <sup>6</sup> , Kambāyat (3) 1093, 1096, 1103, Katak (1) 1072, Lakhnau (2) 1088, 1101 ...	...	...	19
Variety 5: with <i>mīhr munīr</i> , Akbarnagar, no date ...	...	...	14
Illegible mints and dates ...	...	...	43
Type II: two-square areas: Akbarābād (4) 1071, 1081, 1085, 1086, Jūnahgarh (4) 1081 <sup>4</sup> ...	...	...	8
Type III: like Br. Mus. Cat., Nos. 726 and 728: Aḥimābād (7) 1070 <sup>2</sup> , Tattah (1) 1071 ...	...	...	8
Type IV: like Br. Mus. Cat., No. 737, dated 1071 ...	...	...	1
			— 296
V. BAHĀDUR SHĀH, 1119–1124 H.=1707–1702 A.D.			
Type I, like Br. Mus. Cat., Nos. 866, 867: Barēli (4) 1220, 1122 <sup>2</sup> , Etāwā (2) 1121 <sup>2</sup> , Shāhjahānābād (5) 1120 <sup>2</sup> , 1122 <sup>2</sup> ...	...	...	11
Type II, like Br. Mus. Cat., Nos. 861, 862: Akbarābād (1), Akbarnagar (1) 1120, Cīnāpatan (3) 111*, mint illegible (2) ...	...	...	7
Type III, like Br. Mus. Cat., No. 863: Akbarābād (1), Khujistah Bunyād (1) 1120; Lāhōr (1), Sūrat (4) 1121 <sup>4</sup> ...	...	...	7
			— 25
VI. JAHĀNDĀR SHĀH, 1124 H.=1712 A.D., Lāhōr 1124 (new, very rare), Shāhjahānābād 1124 ...			
			— 2

VII.	MUHAMMAD <u>SHĀH</u> , 1131-1161 H. = 1719-1748 A.D.	
	Type: <u>Sāhib Qirān</u> , <u>Shāhjahānābād</u> 1153	1
VIII.	<u>SHĀH</u> 'ĀLAM, 1173-1221 A.H. = 1759-1806 A.D.	
	Type like Br. Mus. Cat., No. 1104, <u>Shāhjahānābād</u>	
	1216 ... ..	1
	Type: some native state (Kōtah ?) (5) 1203 <sup>3</sup> , 1204 <sup>3</sup>	5
	Type: E. I. Company, Farrokhābād, year 4 (2)	2
		8
IX.	AKBAR II.	
	Type like Br. Mus. Cat., No. 1217, <u>Shāhjahānā-</u>	
	<u>bād</u> , 1225 ... ..	1
	Type, some native state (Kōtah ?) ...	1
		2
	Grand Total :—	451

The single copper coin is of the Nārñöl mint, and probably belongs to Akbar's coinage; but it is in a too bad state to be identified with certainty.

II. REPORT ON 740 Silver Coins forwarded by the Deputy Commissioner of the Bannu District, Panjāb, with his No. 1430, dated 26th December, 1895.

These coins are stated to have been found in a "place called the Akra mounds, lying nine miles south of Edwardsabad in the Bannu District." They were "found, buried in one pot, by a person who had gone to the mounds to dig earth in July 1896."

They are small silver coins of the size of a modern four annā piece; and with one exception, belong to Sabaktigīn, one of the early members of the Ghaznavī dynasty, who reigned from 366-387 H. or 976-997 A.D. The exception is a coin of the Hindū dynasty of Kābul, of the Bull and Horseman type, with *Bhīma* over the horseman, and *Çrī Sāmanta Dēva* over the bull.

The Ghaznavī coins belong to three different varieties :—

- 1, the common variety, figured in the British Mus. Cat., Vol. II, No. 453, on Plate V. Of this variety, there are specimens ... .. 719
- 2, another variety, which differs from the common one only in substituting on the obverse the word *Subuktigīn* for *al-Ṭāy'allah*. On this variety, therefore, the word *Subuktigīn* occurs on both sides. Of this variety there are specimens ... .. 13

- 3, a third variety which agrees with the second variety in the reading of the obverse, but further substitutes *al-Tāy'allah* for *Subuktigīn* on the reverse. On this variety, therefore, these two words occupy positions exactly the reverse of those on the first variety. Of this third variety there are specimens ... 8

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Total ... 730

Varieties 2 and 3 are extremely rare. So far as I can discover, they do not exist in the British Museum. The Lahore Museum possesses one specimen of the second variety; it is No. 11 in its Catalogue, Vol. II, page 24. On the other hand, the Indian Museum in Calcutta possesses one specimen of the third variety; it is No. 7847 in its Catalogue, Vol. IV, page 153. There is also one of this variety in the India Office, from Masson's collection, described by Thomas in the *Journal R. A. S.*, Vol. IX, page 305. No others are known to me.

The coins are in very fair condition, so far as their circular areas are concerned. The margins, however, which give the mint and date, are in most cases wholly gone; and in the few exceptional cases, they are mere fragments and almost unreadable. In no case are either mint or date fully determinable.

III. REPORT ON 10 Old Coins forwarded by the Deputy Commissioner of Gujranwālā with his No. 392, dated 17th March, 1896.

The Deputy Commissioner's letter contains no information as to the date and the locality of the find.

The coins are of mixed metal (copper with a little silver) and belong to the early period of the Muhammadan occupation of India. They imitate the well-known early Hindū coinage of the Bull and Horseman class. They are all in a very indifferent condition, showing the merest fragments of their legends. The following is a detailed statement:—

- |   |     |     |     |     |   |
|---|-----|-----|-----|-----|---|
| (1) Coins of Saifu-d-din Hasan Qurlagh, about 625-640<br>H.=1227-1242 A.D., see Thomas' <i>Chronicles</i> ,<br>No. 82   | ... | ... | ... | ... | 8 |
| (2) Coin of Mu'izzu-d-din Bahrām Shāh, like Br. Mus.<br>Cat., No. 70-72   | ... | ... | ... | ... | 1 |
| (3) Coin undetermined; obv. Horseman with traces of<br>हमिरा: <i>hamirah</i> ; rev. recumbent bull with traces<br>of a legend, of which only पृथ पृथा is legible. It<br>is perhaps a coin of Prithirāj of Delhi | ... | ... | ... | ... | 1 |

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Total ... 10

IV. REPORT ON 22 Silver Coins, forwarded by the Deputy Commissioner of Lohardaga with his No. 253 R, dated 1-4th July, 1896.

The coins are stated to have been found "on the 26th September, 1895, by the Māli of Bābū Kailāsa Chandra Chatterjee, while digging a field in his garden where there was formerly a cowshed."

They are Rupees of the East India Company's coinage, of three different varieties, as follows:—

(1a) with oblique milling; 45th san, 1803-1819, mint Farrukhābād...	...	...	...	7
(1b) with oblique milling; 19th san, 1793-1818, mint Murshidābād...	...	...	...	8
(2a) with straight milling; 19th san, 1818-1832, mint Murshidābād...	...	...	...	2
(2b) with straight milling; 45th san, 1819-1833, mint Farrukhābād...	...	...	...	3
(3) with plain edge and plain rim; 45th san, 1833-1835, mint Farrukhābād	...	...	...	2
Total				22

V. REPORT ON 49 Old Coins forwarded by the Deputy Commissioner of Kāngrā, with his No. 996, dated 13th June, 1896.

On the 13th May last, 770 copper and 3 silver coins were found buried in an earthen pot at Machiāli, in village Momtā, Tahsil Kāngrā of the Kāngrā district. The 3 silver coins and 46 specimens of the copper coins were forwarded by the Deputy Commissioner to the Asiatic Society of Bengal, the remainder of the copper coins not being worth acquiring by the Government.

Of these coins, 28 belong to the Sūrī dynasty, and 21 to Akbar. They are all in a rather indifferent condition. The following is a detailed statement:—

I. Coins of the Sūrī Dynasty:—

(1) SHĒR SHĀH, H. 947-952 = A.D. 1540-1545.

(a) *Silver*; type, square areas, like British Museum Catalogue, No. 530, date 952... 1

(b) *Copper*; type, square areas, like Br. Mus. Cat., No. 560, mints: Nārṇol, Hīṣār, Gwāliyār ... 5

(c) *Copper*; type, lettered surfaces, like Br. Mus. Cat., No. 560, dates illegible ... 5

— 11

(2) ISLĀM SHĀH, H. 952-960 = A.D. 1545-1552.

*Copper*; type lettered surfaces; legible dates  
953, 957, 959<sup>a</sup> ... 9



(3) MUHAMMAD SHĀH, H. 960-962 = A.D. 1552-1554.

*Copper*; type, lettered surfaces; legible dates

961 <sup>3</sup> , 962	...	...	...	8
------------------------	-----	-----	-----	---

Total	...	28
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II. Coins of Akbar, H. 963-1014 = A.D. 1556-1605.

(a) *Silver*; with one square and one round area, like Br. Mus. Cat., No. 84, date of

one 968	...	...	...	2
---------	-----	-----	-----	---

(b) <i>Copper</i> ; lettered surfaces, Nārṇōl mint, dates 968, 97 <sup>3</sup> , 974	...	...	12
--	-----	-----	----

(c) <i>Copper</i> ; lettered surfaces, Ḥiṣār mint, illegible dates	...	...	...	3
--	-----	-----	-----	---

(d) <i>Copper</i> ; illegible	...	...	...	4
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Total	...	21
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Grand Total	...	49
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**VI. REPORT ON 19 old Silver Coins** forwarded by the Deputy Commissioner of the Firūzpur District with his No. 1676, dated 9th October, 1896, and No. 1571, dated 25th September, 1896.

The Deputy Commissioner states that 23 coins were found by a zamindār while ploughing in a field in the village of Sarāi Naugā in the Mukatsar Taḥṣil of the Firūzpur District. One specimen was sent in September 1896; and the balance of 22 coins was transmitted in October 1896. Of the latter number, only 18 were received by the Asiatic Society of Bengal, four coins having been lost in transit, owing to the cover enclosing the coins being of a very flimsy nature and tearing on the way; efforts to recover the missing coins were made by the Post Office, but unsuccessfully. The loss is of no consequence, the coins being of no particular numismatic value.

They are small silver coins of the size of 4 annā pieces, and belong to the so-called Indo-Sassanian Class. They have been numerously found in large quantities at various times; and their exact attribution is uncertain. They are commonly known as "Gadhiya ka paisa," and are described and figured in Prinsep's *Indian Antiquities* (ed. Thomas), Vol. I, p. 341, Plate XXVII, figs. 13-16.

**VII. REPORT ON 21 old Silver Coins** forwarded by the Deputy Commissioner of Nāgpur, with his No. 7707-656, dated 6th December, 1895.

No information is given with regard to the date and locality of the find.

All the coins are rupees of the Moghul emperors Farrukh Siyar and Ahmad Shāh. Of the former there is only one rupee, dated H. 1125 = A.D. 1713, mint Eliapur ...

The remainder belong to Ahmad Shāh, and are of the two mints Sūrat and Katak, of various regnal years, the Hijrah years are not legible ...

Total 21

**VIII.** REPORT ON 24 old Silver Coins forwarded by the Collector of Bhagalpur, with his 1070 G., dated 21st August, 1896.

No information is given referring to the date and locality of the find. The coins are rupees of the old British mintage of the East India Company, of the 19th san, and mint Murshidābād.

There are two varieties; (1) of the older issue, of 1793—

1818, with oblique milling ... 10

(2) of the later issue, of 1818–1832, with straight milling 14

Total ... 24

**IX.** REPORT ON 11 old Silver Coins, forwarded by the Collector of Kulna, with his No. 1486 G., dated 3rd October, 1896.

The Collector states that these coins were found in an earthen pot (bhar) by labourers while digging a tank at Bansghattā, Thānā Satkhira.

They consist of rupees of Muḥammad Shāh, Ahmad Shāh and Shāh 'Ālam. Of Muḥammad Shāh there is only one specimen, in poor condition, of the 26th year of his reign (i.e., 1156 H. = 1743 A.D.), and the *Bādsāh Ghāzī* type ...

Of Ahmad Shāh there are seven rupees, all of the 3rd year of his reign (i.e., 1164 H. = 1750 A.D.), and like Br. Mus. Cat., No. 1039 ...

Of Shāh 'Ālam, there are three rupees, like Brit. Mus. Cat., No. 1188, of the dates 1180, 8 and 1181, 9<sup>a</sup> ...

All the coins are of the Murshidābād mint.

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**X.** REPORT ON 19 old Silver Coins forwarded by the Collector of Darbhanga, with his No. 1167 G., dated 28th October, 1896, and No. 155 G., dated <sup>24</sup>/<sub>27</sub> April, 1896.

The coins are stated to have been found in the Bāgmāti river, together with 5 "lobia pice." The former only were forwarded for report.

They are rupees of the following Mughul emperors, covering a period of nearly 100 years, from 1032 H = 1622 A.D. to 1129 H = 1716 A.D.

I. JAHĀNGĪR, 1014-1037 H = 1605-1627 A.D.

Type: lettered surfaces, like Br. Mus. Cat., No.

491, mint Lāhōr, date 1032 H. regnal 17 ... 1

II. SHĀH JAHĀN, 1037-1068 H = 1628-1658 A.D.

(a) type, two square lined areas, mint Multān  
1042, others illegible ... 4

(b) lettered surfaces, like Br. Mus. Cat., No. 608,  
but mint and date illegible ... 1 5

III. AURANGZĪB, 1069-1118 H = 1659-1707 A.D.

(a) type, *badr Munir*, Sūrat 1093, 24, Tattah 1105,  
36, Dāru-l-Khilāfat Shāhjahānābād 1105,  
37, Sūrat, Katak (dates illegible); also  
mints illegible, but 1109, 1111, 1087 ... 9

(b) type, *mīhr munir*, Akbarnagar, *jalūs* 27 ... 1 10

IV. FARRUKH SIYAR, 1124-1131 H. = 1713-1719 A.D.

type, lettered surfaces, like Br. Mus. Cat.,  
No. 891, mints Mustaqiru-l-Mulk 1129, 6,  
Cināpatan, *jalūs* 2 ... 3

Total ... 19

**XI. REPORT ON 14 old Assamese coins, forwarded by the Deputy Commissioner of Sibsāgar with his No. 694 G.I., dated the 28th November, 1896.**

The coins are stated to have been found in an earthen pot in the side of a "hola" by two men of the Kacarī village while getting firewood from a jungle.

They belong to the following of the old Rājas of Assam :-

(1) RUDRA SĪMHA, 1669-1717 A.D.

Silver, octagonal coin, whole rupee, date 1621  
Çaka = 1699 A.D. ... 1

(2) ÇIVA SĪMHA, 1718-1743 A.D.

Silver, whole rupee, octagonal, date 1653 Çaka =  
1735 A.D. ... 1

(3) PRAMATHA SĪMHA, 1744-1750 A.D.

Gold, octagonal,  $\frac{1}{2}$  coin, no date ... 1

## (4) RĀJĒÇVARA SĪMHA, 1750–1770 A.D.

- |  |     |   |   |
|--|-----|---|---|
| (a) Silver, octagonal, whole coin, dates 1682,<br>1689 Çāka = 1760 and 1767 A.D. | ... | 2 |   |
| (b) Silver, octagonal, $\frac{1}{2}$ coin, no date                               | ... | 2 | 4 |
- 

## (5) LAKṢMĪ SĪMHA, 1770–1779 A.D.

- |  |     |     |   |
|--|-----|-----|---|
| (a) Gold, octagonal, $\frac{1}{4}$ coin, date 1695 Çāka =<br>1773 A.D.   | ... | ... | 1 |
| (b) Silver, octagonal, whole coins, dates 1692, 1693,<br>1696, and 1697 Çāka = 1770, 1771, 1774<br>and 1775 A.D. | ... | ... | 4 |
| (c) Silver, octagonal, $\frac{1}{4}$ coins, date none  | ... | 2   | 7 |
- 

Total ... 14

**XII.** REPORT ON 3 old Silver Coins, forwarded by the Collector of Darbhanga, with his No. 234, dated 4th May, 1896.

These coins are stated to have been found by some persons while digging earth on the banks of the Jiwac river. The date of the find is not mentioned.

They are coins of the following Independent Sultāns of Bengal:—

- (1) ALĀU-D-DĪN ḤUSAIN SHĀH, 899–925 H. = 1493–1518 A.D.

Type, lettered surfaces, like Brit. Mus. Cat.,  
No. 130, mint Ḥusainābād, date 919 ... 2

- (2) NĀṢIRU-D-DĪN NAṢRAT SHĀH, 925–939 H. = 1518–1532,  
A.D., mint Dāru-l-ẓarb, date 925, like Brit. Mus.  
Cat., No. 143 ... 1
- 

Total ... 3

**XIII.** REPORT ON three old Silver Coins, forwarded by the Collector of Muzaffarpur, with his No. 1451 R., of 30th December, 1896.

The coins are stated to have been dug out of a hole by some children, who were grazing goats, in Majhauiliā, a tolah of Paru, in the Muzaffarpur District, November 1896.

They are coins of Sultān 'Alāu-d-dīn Muḥammad Shāh of Delhi, who reigned 695–715 H. = 1295–1315 A.D., of the type shown in the British Museum Catalogue, No. 164. They are all of the 'Ḥaṣrat Dehli' mint, though the mint-name is fully preserved only on one specimen. The date is lost on all three specimens.

The SECRETARY read the following note by Dr. L. A. Waddell, on the Rev. A. Sandberg's note to Mr. Gait's paper on Ahom coins.

To

THE SECRETARY OF THE ASIATIC SOCIETY OF BENGAL.

SIR,

I have just received the June number of the *Proceedings* of the Society and find that it contains a note under the above heading by Mr. Sandberg dealing with what he is pleased to consider certain 'inaccuracies' of mine, and I take the earliest opportunity of correcting its misapprehensions and mistatements.

It is amusing to see such a peaceable person as myself accused of 'much maligning Huc' and of 'accusing him of errors,' especially as I have never lost an opportunity of expressing my admiration for Huc's marvellous accuracy of observation; and few, indeed, have contributed more than I have done towards rehabilitating Huc's reputation for veracity. And certainly no hostile spirit to Huc's work was expressed or implied by me in my reply to the editor's request to revise the spelling of the names in Huc's list in accordance, if possible, with the system adopted by the Society. A glance at Huc's Tibetan names at once showed that his list stood much in need of revision. In fact the majority of his names were misspelt almost beyond recognition, thus *Oheng* for *Shig*, *Dohak* for *Chag* and *Tchon* for *Chhu*—for Huc's weakest point was the comparatively unimportant one of spelling.

As the editor was also good enough to ask me to test if possible, Huc's spelling of the Mongolian words, I obtained the list in question from the learned Mongolian Lāma of the Bhotiya School at Darjiling who is Babu Sarat Chandra Das' chief source of inspiration on Tibetan matters; and had my accompanying note on its source and interpretation been also published, all ambiguity would have been saved.

In that note, of which unfortunately I kept no copy, I am under the impression that I clearly stated, firstly, that the Mongolian words were written down for me in Tibetan characters by the scholarly Mongol Lāma Sherap Gyatsho, who is thoroughly proficient in Tibetan; and secondly, that all I had done was to transliterate these words into Roman characters by a slight modification of the system of Jaeschke, the authority on Tibetan orthography;<sup>1</sup> and thirdly, that the words were pronounced according to the Tibetan style.

I could not compare the words with the forms found in the dictionaries of European lexicographers as I had at that time no library at

<sup>1</sup> The system adopted is almost identical with that used by the Society except that the *h* in aspirates is expressed by a comma.

hand for reference, nor had I visited Mongolia or studied that language. Now, however, I have looked up as far as I can the authorities quoted by Mr. Sandberg.<sup>1</sup> The Society's library contains two out of the three dictionaries quoted by him. Of these, however, only Castren's is in Romanized characters, the other by Schmidt being in Mongolian and Russian type. And it is remarkable to find that although Mr. Sandberg says he writes "in the interests of accuracy" he is most inaccurate in his quotations. So much so that the alleged differences between the versions of his dictionaries and of the Mongol Lāma have been much magnified. The few discrepancies which do exist are dialectic of a kind which are more apparent than real, as they consist mainly in the difference between the written and spoken forms of Tibetan, a fact which it is strange Mr. Sandberg did not perceive, as he has studied Tibetan.

In the following table I have arranged the various lists for comparison. The last two columns show how far the only available one of the three dictionaries quoted by Mr. Sandberg justifies his claim for accuracy. It will also be evident that, *pace* Mr. Sandberg, the Mongol Lāma's list is quite as near the dictionary version as Huc's, or even still nearer to it; while it has the merit of giving at first hand by a learned Mongol an independent version of the spoken form of the words in question.

	Mongolian Lāma's List in Tibetan Characters.		Huc's List. <sup>2</sup>	Castren and others, according to Mr. Sandberg.	Castren's own spelling. S. = Selengin dialect. T. = Tunkin dia- lect.
	As pro- nounced.	As Spelled.			
Wood	Mot	Mod	Moto	Modon	Modo S.; Modon T.
Fire	Kal	Kal	Gal	Gāl	Gal
Earth	Sho-ra	So'-ra	Ché-ré	Shirogé	Sábar S. Ojor.
Iron	T'u-mer	T'u-mer <sup>3</sup>	Té-mur	Temür	Tumer T.; Tömör S.
Water	O-su	O-su	Ousson	Usun.	Oso S.
Mouse	Hul-kan	Hul-kan	Khouloukhana	{ Khulughana in (N. Mong.) and Hulghana (in S. Mong.).	Xulgana S. and T.

<sup>1</sup> His statement too that "there is no letter 'p' in Mongol" seems remarkable as his authority Castren frequently uses 'p' in transliterating Mongol words.

<sup>2</sup> Hazlitt's translation of Huc's *Travels in Tartary, Tibet and China*, II, 212.

<sup>3</sup> By a mistake this was printed T'uled.

	Mongolian Lāma's List in Tibetan Character.		Huc's List. <sup>1</sup>	Castren and others, according to Mr. Sandberg.	Castren's own spelling. S.=Selengin dialect. T.=Tunkin dialect.
	As pronounced.	As Spelled.			
Ox	U-k'er	U-k'er	Oukhere	.....	Uker T. and Uxer S. (Not found) (Not found)
Tiger	Bar	Par	Bara	Bars	
Hare	Tü-lé	T'us-las	Tolé	Tolai	
Dragon	Lu	Lwu	Lou	Lu	Mogoi
Serpent	Mo-ké	Mo-kas	Mokhé		Xone S.
Horse	Mo-ri	Mo-ri	Mori		
Ram	Ho-ni	Ho-ni	Khōwī		
Monkey	Be-chi	Pe-chi	Betchi		
Fowl	T'a-ka	T'a-ka	Takia	Takiya { Nohe (in S. Mong.) and Nokhai (in N. Mong.) Ka-he, (in S. Mong.) and Khakhai (in N.)	(Not found)
Deg	No-hé	No-has	Nokhé		
Fig	Ka-hé	Ka-has	Khakhé		

So much then for Mr. Sandberg's boasted accuracy in respect to the Mongolian names. As regards the Tibetan list I have already instanced how much it stood in need of revision. With such uncouth words as *spren* and *lc'ags* it is a wonder that printer's errors are not more numerous. The other word mentioned by Mr. Sandberg should certainly be *Lug* and not *Luk* as given by him.

I would also notice here another article in this *Journal* which attributes to me statements that I never expressed. Mr. Beveridge in his paper on *The site of Karna-Suvarna*, which appeared in the *Journal* of the Society when I was absent in Europe,<sup>2</sup> and which has only lately come to my notice, makes me assert the opinion that the long lost capital of king Çaçāṅka certainly lies near the city of Burdwan. While as a fact, I only recorded some local evidence in favor of this possibility. And his discovery that this site lay probably at Raggamāṭi near Murshidābād is no discovery at all, as it was specially mentioned by me in that very report which he notices.

L. A. WADDELL.

Calcutta, 19th December, 1896.

Rai Çarat Candra Das Bahadur, gave an account of the early history of Chittagong.

<sup>1</sup> Hazlitt's translation of Huc's *Travels in Tartary, Tibet and China*, II, 212.

<sup>2</sup> *Proceedings*, December 1893, p. 172; and *Journal*, Vol. LXII, i, 1893, pp. 315 et seq.

The following papers were read:—

1. *Numismatic Notes and Novelties (Ancient and Mediæval India).*—  
By VINCENT A. SMITH, I.C.S., (with a plate).

2. *Mēghāṣvara Inscription.*—By NAGENDRANĀTHA VASU.

The papers will be published in the *Journal*, Part I.

3. *A Theory of Vegetable Antitoxins.*—By SURG.-CAPT. H. A. CUMMINS, A.M.D., F.L.S. Communicated by the *Natural History Secretary*.

#### Preliminary remarks.

Sec. I. Experiments on absorption of plants—Bacteria, &c.—  
Symbiosis.

Sec. II. Unorganised ferments—Comparison between physiological processes in animal and vegetable cell.

Sec. III. Antiseptics—Quinine, &c.—Constitution of protoplasm in different species.

Sec. IV. Alteration in character of secretions by change of environment.

Sec. V. Contact of protophytes with roots in the soil. Transpiration.

#### General conclusions.

#### PRELIMINARY REMARKS.

The formation of antitoxins in animals leads me to believe that an analogous process may take place naturally in plants. I am not aware that an attempt has ever been made to produce these antitoxic substances artificially in plants. The attempt would undoubtedly be attended with great difficulty as the circulation of vegetable fluids is by no means so free as in the blood vessels of the higher animals.

The soil contains numberless protophytes doubtless as poisonous in many cases to the higher plants as they are to animals. That intense poisons do exist in the soil is shown particularly in malarious countries where freshly opened ground causes severe fevers among the labourers employed, especially if they are not natives of the locality.

It would appear that as in animals so in plants antitoxins play a very important part in survival or extinction of species. Among human beings it is known that those living in a certain locality are exempt from diseases the poisons of which exist in the ground or water: as an instance of this we observe the natives of the Gold Coast who suffer little from fever of a malarial character which attacks Europeans or inhabitants of a neighbouring part of the country. We may explain



this by saying that a substance toxic to the fever poison is produced in the tissues and that in the course of years, survival of those capable of producing this antitoxin led to the existence of a fever-resisting race. In a similar manner plants capable of producing a necessary antitoxic substance now grow and flourish while those not so capable have become extinct. I shall now endeavour to explain how I think the process may take place.

#### SEC. I. EXPERIMENTS ON ABSORPTION OF PLANTS—BACTERIA, ETC.— SYMBIOSIS.

We must first consider the results of certain experiments made by scientists to test the powers of absorption by the roots of plants. The red colouring matter of *Phytolacca* was absorbed by white hyacinths when poured upon the soil on which they were grown: after two or three days the red colour disappeared from the flowers (Bion). The flowers of the tuberosa (*Polyanthes tuberosa*) and snapdragon were affected in a similar manner (Sarrabat). Cut flowers take up colouring matter with rapidity, as may be easily demonstrated. The injured cells at the surface of the section become infected with bacteria (Höbnel). The osmotic action by means of which water and substances dissolved therein pass into the roots does not preclude the possibility of the entrance of bacteria. Dead albuminous substances cannot pass through a colloid membrane: the relation between living cells is different and although the cells of the root hairs may be very capricious in their action, nevertheless, living bacteria or other protophytes might gain admission. Bacteria appear to be invariably unicellular and amongst the minutest organisms observed by the aid of the microscope varying from  $\frac{1}{500}$  m.m. to  $\frac{1}{2000}$  m.m. (Kerner and Oliver, *Nat. Hist. Plants*, page 161).

Besides the bacteria proper there are many protophytes which consist each of a very small cell without any differentiation into cell-wall and cell contents (Sachs, *Text Book of Botany*, page 248). Bacteria are also known to exist and float about in the air so that the possibility of their entrance by the stomata of leaves must also be considered. This entrance of the hyphae of *Polypori* is known to take place (Kerner, *op. cit.*, page 163).

A certain relation is known to exist between *Fungi* and the roots of plants, especially of those of the Natural Orders *Ericaceae*, *Oupuliferae* and *Salicaceae*. Here we have a symbiotic union between the fungus-mycelium and the roots of a green-leaved plant, (Kerner, *op. cit.*, page 250). The hyphae insinuate themselves inside the walls of the epidermal cells of the root and the latter are permeated by an extremely fine meshed mycelial net (Kerner, *op. cit.*, page 249).

We can imagine without difficulty the converse of this case; hostile organisms gaining admission and damaging the tissue by causing fermentations. The host plant then throws out an antitoxic fluid from its cells to save it from destruction.

The possibility of entrance of protophytes is made easier of belief when we also think that colouring matter can pass the epidermal cells of the root and get carried through the vascular system of the plant to the flowers.

## SEC. II. UNORGANISED FERMENTS—COMPARISON BETWEEN PHYSIOLOGICAL PROCESSES IN ANIMAL AND VEGETABLE CELL.

In the next place we must consider the points of analogy in the physiological processes of the animal and vegetable cell.

We find that in the vegetable cell, starch is converted into glucose or cane-sugar. This change is said to be due to the action of an un-organized ferment and of this class of ferments several have been shown to occur, *viz.*—Emulsin in almonds, diastase in barley, and myrosin in mustard seeds. A similar change of starch into sugar takes place in human saliva and by the action of pancreatic juice. Again a peptic ferment changes, in the vegetable cells, the reserve proteids into peptones (Sachs, *op. cit.*, page 708). The leaves of *Drosera* produce an acid and a ferment which act on albuminous compounds like pepsin. This is also the case with the secretion of the leaves of butterwort (*Pinguicula*) which act in a manner similar to the gastric juice of animals, (Kerner, *op. cit.*, pages 142 and 144). Asparagin which is a bye product in the oxidation of nitrogenous substances of the plant has been said to correspond physiologically with urea in animals (Sachs, *op. cit.*, page 722).

In comparing circulatory systems of plants and animals, we find in the latter arteries, veins, lactiferous vessels, &c., for the conveyance of special nutritive fluids. In the former (plants) the circulation of sap takes place thus:—In the parenchyma of the fundamental tissue which has an acid reaction, are conveyed carbo-hydrates and oil: by the soft bast the albuminoids which have an alkaline reaction. When there are lactiferous vessels they furnish an open communication between all the organs of the plant. These lactiferous vessels contain albuminoids, carbo-hydrates and oil as well as poisons and other secondary products of metastasis. Of the secondary products of metastasis such as colouring matters, acids, alkaloids, &c., many have no known physiological signification in the life of the plant (Sachs, *op. cit.*, pages 706, 711-712.)

Again some gases as sulphuretted hydrogen, carbon oxide, common

coal gas, &c., seem to have an influence on plants like that produced on animals by narcotic poisons: other gases as sulphurous and hydrochloric acid appear to resemble the action of irritants upon animals (Bentley, *Manual of Botany*, p. 806).

### SEC. III. ANTISEPTICS—QUININE, ETC.—CONSTITUTION OF PROTOPLASM IN DIFFERENT SPECIES.

We next pass to the consideration of antiseptics or substances which kill or check the growth of fermentative organisms: amongst these I mention salicylic acid, thymol, and eucalyptus-oil (essential principle).

The *Eucalyptus globulus* is well known as a purifier of the soil and it is probable that the essential principle of the oil is antitoxic. If it does not exist in the plant in its ordinary form, it is very speedily converted into this form on exposure to the air, probably by the action of a ferment, as takes place in the coagulation of blood in animals.

We now turn to *Cinchona* and *Ipecacuanha*. These two plants grow in localities where the diseases for which they are used as remedies prevail. The fact is remarkable even if the two poisons cannot be shown to produce the two diseases and remedies respectively in plants and animals. The quinine being antitoxic in the plant is capable of supplying, to a certain extent, the want of antitoxin in man. We know that plants growing side by side in the same soil produce different secretions. This shows us how the constitution of protoplasm varies in different species: from this we can see how one poison may produce many kinds of antitoxins in as many differently constituted plants.

We may infer that the poisonous principles of many plants such as *Nux-vomica*, *Conium*, *Digitalis*, &c., are antitoxic substances and not altogether as has been stated a protection for the foliage of the plant against its destruction by herbivorous animals.

### SEC. IV. ALTERATION IN CHARACTER OF SECRETIONS BY CHANGE OF ENVIRONMENT.

We must next consider the alteration in the character of secretion caused by change of environment. *Oicuta virosa* and *Enanthe crocata* which are poisonous in most districts in England are harmless when grown near Edinburgh. The common mushroom (*Agaricus arvensis*) when grown in England is a comestible article, but in Italy and Hungary it is avoided on account of its possessing a poisonous principle (Bentley, *Manual of Botany*, pages 824 and 825). The toxic resin of *Cannabis sativa* when grown in England is very small or altogether absent: but the variety *indica*, which is considered by most authorities

to be a variety of the same species, produces in Bengal a great quantity of the same resin.

If plants of warm or tropical regions be placed in our hot-houses, their secretions are either not formed at all or in diminished amount (Bentley, *op. cit.*, p. 824). An almost corresponding difference in disease, poisons may be noted in different countries. We find ague present to a slight extent in England, the poison being of a mild character, while in India and Africa, in many localities, the poison is most intense. Similarly tetanus is said to be very common in Lower Bengal and in the West Indies, especially among horses. Many of these instances may be explained by saying that the heat and moisture facilitate the development of lower organisms, in the same way as the higher plants grow with a magnificent luxuriance unknown in temperate climates. The poisons of Asiatic cholera and dysentery are very capricious in their choice of habitats. From all these cases we may assume that organic poisons vary greatly in power in the soil with the country in which they occur and this plainly shows the multifarious influences to which the roots of plants must be constantly subjected. We know that certain organisms are harmless or otherwise to animals and the same can be said of plants on account of the similarity of their cell-action which has been explained.

#### SEC. V. CONTACT OF PROTOPHYTES WITH ROOTS IN THE SOIL— TRANSPIRATION.

Lastly let us consider the probability of contact of these organisms with the roots. We know that a large amount of aqueous vapour is transpired from the leaves: in the case of the oak this amounts to eight and a half times the rainfall over the area covered by the foliage of the tree; in the *Eucalyptus globulus* it amounts to eleven times the rainfall. From these facts we clearly see that trees tend to dry the soil, and that the abstraction of water from the area penetrated by the roots, at first tends to dry it; but there would be a tendency for the water to percolate from the surrounding soil to the immediate vicinity of the roots when extraction was taking place and consequently the former area would be kept constantly moist. Bacteria require a moist or fluid medium for development and consequently we can imagine that the area of the roots would be infested with them on account of the moisture which exists there, and that they would be likely to cluster round the roots. In many cases this would probably be prevented by the exudation from the roots of toxic substances in order to help the epidermal cells of the root to resist the entrance of these organisms.

The action of light, heat and electricity are known to have an

important bearing on the production and growth of plants, but their influence does not satisfactorily account for many of the facts mentioned in this paper.

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Antitoxins were obtained by Ehrlich of Berlin with some poisons not of bacterial origin but derived from the vegetable kingdom. (Presidential Address, British Association, 1896.)

#### GENERAL CONCLUSIONS.

So far as I know a satisfactory explanation has never been given as to the origin or use in the plant of the majority of substances, chiefly of a toxic nature, produced as the result of the secondary processes of metastasis. That these poisons are lethal to the organisms in the soil and primarily produced by their irritation of the plant by entering it and causing fermentation, seems to me a simple explanation. I have mentioned how colouring matters may gain admission to the plant's vascular system, also that the cells exercised an absorptive or destructive influence in the case of the colouring matter absorbed by hyacinths. I have also mentioned the symbiosis which takes place between certain *Fungi* and the roots of green-leaved plants: from analogy we may conclude that there may be a similar relation between bacteria and the roots favourable or otherwise to the plants concerned. The possibility of entrance by the stomata has also been mentioned. We compared the fermentive processes of metastasis in plants and animals, and we saw that the protoplasm in each case acted similarly, so we may infer that under favourable conditions antitoxins may be formed in plants as in animals by any matter capable of stimulating the cells in the required manner.

The production of many antiseptic substances which we find in plants leads me to believe that they are produced in most cases as the result of irritation of the cells of the higher plant by the entrance of organisms causing fermentation of the juices of the plant.

That organisms could have every opportunity of doing so unchecked, and of multiplying in deciduous trees is evident, as the sap lies for a long time in the cells and vessels waiting for the young buds to develop and open. If it were not for a substance which could be supplied by the cells to neutralize the effect of, or kill the fermentative organisms, the plant must die.

In plants belonging to the Natural Orders *Apocynaceæ*, *Euphorbiaceæ*, &c., the white milky nutrient juice generally possesses an acrid or poisonous principle evidently to protect it against fermentation.

That every facility is given to protophytes to approach the roots of

trees, especially those in the process of transpiration, has been explained. To combat these organisms it is probable that the roots exude a part of the poisonous principle into the surrounding soil.

Change of locality frequently alters the power of many organisms which cause disease in man, so we may infer that the absence or variation in quantity of secretion is due to the necessary organisms being absent altogether or present in small numbers.

From a consideration of all the foregoing circumstances, it seems to me almost certain that organisms do gain admission to the vascular systems of plants. The irritation which they produce on the cells causes the formation of antitoxins and these antitoxins are many of the alkaloids and useful vegetable drugs which are constantly employed as medicinal remedies and for other purposes. These may exist in the plant in the form in which we know them or in a state, a very slight change from which by the action of a ferment, converts them into substances capable of protecting the cells or into their known condition. The peculiarities of protoplasm in different species have been noted and it seems possible for one kind of protophyte to produce toxins having different characters in different plants.

It is a noticeable fact that many toxic substances are obtained from the bark through the inner layers of which albuminoids are carried.

Conclusion—Fermentative parasites gain admission to the tissues of the plant: the irritation produced causes a reaction in the cells of the host; this reaction results in the formation of a protective substance, an antitoxin; and this latter causes the death of the parasite.

In connection with this paper Dr. Prain said:—

Dr. Cummins' theory is a very interesting one, carefully thought out and clearly stated. It is at the same time more or less conjectural and some of the facts cited in support of certain of the steps in the reasoning may be said to be, if not contradictory, at all events not corroborative. Two of these may be mentioned as examples.

In the chapter on Antiseptics it is said that *Eucalyptus globulus* is well known as a purifier of the soil and it is probable that the essential principle of the oil is antitoxic. The statement is very well known and is perhaps often believed, but I most certainly do not think either that the case for the *Eucalyptus* has been made out or that the benefits derived from its culture are greater than would be attained if another tree were planted, which in Dr. Cummins' own words (in *Sect. V.*) is capable of transpiring moisture equal to eleven times the rainfall over the area covered by the foliage of the tree.

If the citation of *Cannabis sativa* var. *indica* be intended to imply that its secretion of resin in Bengal is at all a protective measure, I have

to say that the matter is open to great doubt. The process of secretion is, if not intimately associated with the formation of seeds, at least one that varies with the seed-formation. If the flowers of the female plant in the plains of Bengal be permitted to become fertilized, so that the fruits and seeds form, there is no resin to be found filling the glandular hairs on the outside of the bracts. When however by destruction of the male plant fertilisation is made impossible the fruits do not fill and the glandular hairs in question are loaded with the narcotic substance of hemp.

The theory is not one that in the present state of our knowledge I am prepared to accept. At the same time, seeing that it has been advanced as an hypothesis to explain certain facts, the significance of which is admittedly obscure and has been stated so lucidly as Dr. Cummins has stated it, we may, I think, very well publish the short paper *in extenso*. This will enable those interested to see what the theory implies and to indicate what is necessary for its experimental refutation or confirmation.

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### LIBRARY.

The following additions have been made to the Library since the Meeting held in December last :—

#### TRANSACTIONS, PROCEEDINGS AND JOURNALS,

*presented by the respective Societies and Editors.*

- Baltimore. Johns Hopkins University,—Circulars, Vol. XVI, No. 127.
- Calcutta. Geological Survey of India,—Records, Vol. XXIX, Part 4.
- . Indian Engineering,—Vols. XX, Nos. 23-26 ; XXI, 1.
- . The Indian Lancet,—Vols. VIII, Nos. 11 and 12 ; IX, 1.
- . Maha-bodhi Society,—Journal, Vol. V, No. 8.
- . Photographic Society of India,—Journal, Vol. IX, No. 12.
- Chicago, Ill. The American Antiquarian and Oriental Journal,—Vol. XVIII, No. 5.
- Havre. Société de Géographie Commercial du Havre,—Bulletin, Vol. XIII, No. 3.
- Leipzig. Die Deutsche Morgenländische Gesellschaft,—Abhandlungen für die Kunde des Morgenlandes,—Band X, Heft 3.
- . ———. Zeitschrift, Band L, Heft 3.

- Leipzig. Die Königl. Sächsische Gesellschaft der Wissenschaften,—  
Abhandlungen, Band XVII, Nrn. 5 ; XXIII, 4 und 5.
- London. The Academy,—Nos. 1280-84.
- . Anthropological Institute of Great Britain and Ireland,—  
Journal, Vol. XXVI, No. 2.
- . The Athenæum,—Nos. 3604, 3605, 3607.
- . The Geographical Journal,—Vol. VIII, No. 6.
- . Institution of Civil Engineers,—Minutes of Proceedings,  
Vol. CXXV.
- . Nature,—Vol. LIII, Nos. 1412-15 ; and Index to Vol. LIV.
- . Royal Astronomical Society,—Monthly Notices, General  
Index to Vols. XXX-LII.
- . Zoological Society of London,—Proceedings, Part III, 1896.
- . ———. Transactions, Vol. XIV, Part 2.
- Manchester. Manchester Literary and Philosophical Society,—List of  
Members, &c., from February 28th, 1781 to April 28th, 1896.
- . Memoirs and Proceedings, Vol. XLI, Part I.
- Mussoorie. The Indian Forester,—Vol. XXIII, Nos. 11 and 12.
- New Haven. American Oriental Society,—Journal, Vol. XVII.
- Newport. Newport Natural History Society,—Proceedings, 1888-91.
- Paris. Société de Géographie,—Comptes Rendus des Séances, Nos. 15  
et 16, 1896.
- . Société Philomatique de Paris,—Comptes Rendus Sommaire  
des Séances, Nos. 2 et 3, 1896.
- Philadelphia. American Academy of Political and Social Science,—  
Annals, Vol. VIII, No. 3.
- Pisa. La Società Toscana di Scienze Naturali,—Atti (Processi Verbali),  
5 Luglio, 1896.
- Rome. Rivista Geografica Italiana, Tome III, No. 9.
- Schaffhausen. Die Schweiz. Entomologische Gesellschaft,—Mitthei-  
lungen, Band IX, Heft 9.
- St. Petersburg. Comité Géologique,—Memoires, Tome XV, No. 2.
- . Imperial Academy of Sciences,—Proceedings, Vol. XXXII,  
No. 3.
- Sydney. Royal Society of New South Wales,—Journal and Proceed-  
ings, Vol. XXIX.
- Taiping. Perak Government,—Gazette, Vol. IX, Nos. 25 and 27.
- Tokyo. Imperial University of Japan,—Journal of the College of  
Science, Vol. X, Part I.
- Washington. Biological Society of Washington,—Proceedings, Vol. X,  
pp. 115-25, 127-32.
- Wellington. Polynesian Society,—Journal, Vol. V, No. 3.



## BOOKS AND PAMPHLETS,

*presented by the Authors, Translators, &c.*

- MORSE, EDWARD S. On the so-called Bow-Pullers of antiquity. 8vo. Salem, 1894.
- SCHLAGINTWEIT, EMIL. Die Berechnung der Lehre, eine streitschrift zu Berichtigung der buddhist ischew chronologie verfasst im Jahre, 1591, now Sureçamatibhadra. 4to. Munich, 1896.

## MISCELLANEOUS PRESENTATIONS.

- CHIJS, J. A. VAN DER. Nederlandsch-Indisch Plakaatboek, 1602-1811. Deel XV. 8vo. Batavia, 1896.
- BATAVIAASCH GENOOTSCHAP VAN KUNSTEN EN WETENSCHAPPEN.
- Report on Education in the Central Provinces for the year 1895-96. Fcp. Nagpur, 1896.
- Report on the Excise Revenue in the Central Provinces for the year 1895-96. Fcp. Nagpur, 1896.
- Report on the Nagpur Experimental Farm in the Central Provinces for the year 1895-96. Fcp. Nagpur, 1896.
- Report on the Rail-borne Traffic of the Central Provinces for the year 1895-96. Fcp. Nagpur, 1896.
- Resolution on the Management by Government of Private Estates in the Central Provinces for the year 1894-95. Fcp. Nagpur, 1896.
- CHIEF COMMISSIONER, CENTRAL PROVINCES.
- Bulletin of the Department of Agriculture, Brisbane, Nos. 12 and 14. 8vo. Brisbane, 1896.

## DEPARTMENT OF AGRICULTURE, BRISBANE.

- Report on the Land Revenue Administration of the Lower Provinces for the year 1895-96. Fcp. Calcutta, 1896.
- Resolution reviewing the reports on the working of the District Boards in Bengal during the year 1895-96. Fcp. Calcutta, 1896.
- Resolution reviewing the reports on the working of Municipalities in Bengal for 1895-96.
- WILSON, C. R. List of Inscriptions on Tombs or Monuments in Bengal possessing historical or archæological interest. Fcp. Calcutta, 1896.

## GOVERNMENT OF BENGAL.

- Brief sketch of the Meteorology of the Bombay Presidency for 1895-96. Fcp. Bombay, 1896.

## GOVERNMENT OF BOMBAY.

- BROWN, ROBERT. The History and Description of Africa of Leo Africanus, Vols. I-II. 8vo. London, 1896.

## GOVERNMENT OF INDIA, HOME DEPARTMENT.

The Agricultural Ledger, Agricultural Series, No. 18; Animal Product Series, No. 1; Medical and Chemical Series, Nos. 6 and 7; Veterinary Series, Nos. 15-17; Special Veterinary Series, No. 1; Vegetable Product Series, No. 28.

GOVERNMENT OF INDIA, REV. AND AGRI. DEPARTMENT.

Annual Report of the Archæological Survey, Madras, for 1895-96. Fcp. Madras, 1896.

GOVERNMENT OF MADRAS.

Report on the Administration of the Punjab and its Dependencies for 1895-96. Fcp. Lahore, 1896.

GOVERNMENT OF THE PUNJAB.

RODGERS, C. J. Catalogue of the coins of the Indian Museum, Parts 3 and 4. 8vo. Calcutta, 1895-96.

INDIAN MUSEUM.

Report of the condition and progress of the G. V. Juggarow Observatory, Vizagapatam, including the results of the Observatory for the year 1895. 8vo. Calcutta, 1896.

G. V. JUGGAROW OBSERVATORY, VIZAGAPATAM.

Return of Wrecks and Casualties in Indian Waters during the year 1895. Fcp. Calcutta, 1896.

PORT OFFICER, CALCUTTA.

Report of the U. S. National Museum, 1893. 8vo. Washington, 1895.

SMITHSONIAN INSTITUTION, WASHINGTON.

Tide Tables for the Indian Ports for the year 1897 (also January, 1898). 8vo. London, 1896.

SURVEY OF INDIA, TIDAL AND LEVELLING OPERATIONS, POONA.

List of the Vertebrated Animals now or lately living in the Gardens of the Zoological Society of London. 8vo. London, 1896.

ZOOLOGICAL SOCIETY OF LONDON.

### PERIODICALS PURCHASED.

Braunschweig. Jahresbericht über die Fortschritte der Chemie und verwandter Theile anderer Wissenschaften,—Heft VII, 1890.

Calcutta. Indian Medical Gazette,—Vol. XXXI, No. 12.

Chicago. The Journal of Geology,—Vol. IV, No. 6.

Geneva. Archives des Sciences Physiques et Naturelles,—Tome II (4<sup>e</sup> série), No. 11.

Leipzig. Annalen des Physik und Chemie,—Band LIX, Heft 4.

London. Numismatic Circular,—Vol. V, No. 49.



PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR FEBRUARY, 1897.

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The Annual Meeting of the Asiatic Society of Bengal was held on Wednesday, the 3rd February, 1897, at 9 P.M.

Dr. A. F. R. Hoernle, Vice-President, in the chair.

The following members were present :—

Dr. A. R. S. Anderson, Bābu Çarat Candra Dās, F. Finl, Esq., The Most Rev. Archbishop P. Goethals, W. A. Lee, Esq., C. Little, Esq., Kumār Rāmeçvar Māliāh, J. Mann, Esq., Bābu Pancānau Mukherji, L. de Nicéville, Esq., M. H. Oung, Esq., A. T. Pringle, Esq., T. W. Richardson, Esq., P. C. Roy, Esq., Pandit Satyavrata Sāmaçrami, Bābu Lakṣmi Nārāyan Singh, Pandit Mahēndranatha Vidyānidhi, C. R. Wilson, Esq.

*Visitors* :—Bābu Satiça Candra Ācārya, Bābu Jnān Çaraṇ Cakravarti, Bābu Gaurinath Cakravarti, Bābu Hṛsikēça Candra, Dr. Niçikānta Chatterji, Bābu Hariprasād Chatterjee, Bābu Içvar Candra Dās-Gupta, The Rev. J. Morrison, Bābu Pratul Candra Vasu.

According to the Bye-laws of the Society, the Chairman ordered the voting papers to be distributed for the election of Officers and Members of Council for 1897, and appointed Messrs. W. A. Lee and M. H. Oung to be Scrutineers.

The Chairman then called upon the Secretary to read the Annual Report.

ANNUAL REPORT FOR 1896.

The Council of the Asiatic Society have the honour to submit the following Report on the state and progress of the Society's affairs during the past year :—

## Member List.

During the year under review, 24 Ordinary Members were elected, 15 withdrew, 7 died, 5 were removed from the list under Rule 40, being more than three years absent from India. There was thus a net loss of 3 Ordinary Members during the year. The total number of Members at the close of 1896 being 294, against 297 for the preceding year; of these 105 were Residents, 119 Non-Residents, 11 Foreign, 23 Life, 35 Absent from India and 1 Special Non-Subscribing Member, as will be seen from the following table, which also shows the fluctuations in the numbers of Ordinary Members during the past six years :—

YEAR.	PAYING.				NON-PAYING.				GRAND TOTAL.
	Resident.	Non-Resident.	Foreign.	Total.	Life.	Absent.	Special Non-Subscribing.	Total.	
1891 ... ..	101	134	10	245	21	27	2	50	295
1892 ... ..	115	127	11	253	22	33	2	57	310
1893 ... ..	116	123	12	251	22	33	2	57	308
1894 ... ..	98	125	12	235	22	36	2	60	295
1895 ... ..	108	122	12	242	23	31	1	55	297
1896 ... ..	105	119	11	235	23	35	1	59	294

The seven Ordinary Members, the loss of whom by death during the year we have to regret, were Mr. O. G. Arthur, Mr. Diego Ernst, Mr. Manmohan Ghose, The Hon. Prince Sir Jahan Qadr Muhammad Wahid Ali Bahadur, Bābu Balai Chand Sinha, Sir Sirdar Attar Singh Bahadur, and Mr. W. Swinhoe.

There was one death amongst the Honorary Members, viz. :—Dr. Reinhold Rost. During the year, on the recommendation of the Council, the following gentlemen were elected as Honorary Members :—Sir Joseph Lister, Professor Michael Foster, Professor F. Keilhorn, and Professor C. R. Lanman. Thus the number of Honorary Members stands at 24.

The lists of Special Honorary Members, Corresponding Members, and Associate Members, continue unaltered from last year, there having been no casualties; their numbers stand at 5, 4, and 10, respectively.

No Members compounded for their subscriptions during the year.

**Indian Museum.**

No presentations were made over to the Indian Museum.

The Trustees on behalf of the Society were:—

Dr. A. F. R. Hoernle.

A. Pedler, Esq.

Dr. D. D. Cunningham.

C. Little, Esq.

Dr. Mahendralal Sarkar.

**Finance.**

The accounts of the Society are shown in statement No. 1, in the appendix, under the usual heads.

Statement No. 8 contains the Balance Sheet of the Society and of the different Funds administered through it.

The Budget Estimate for 1896 was taken at the following figures:—  
Receipts Rs. 16,420; Expenditure Rs. 16,042.

The actual results were found to be—Receipts, Rs. 18,448-7-9; Expenditure, Rs. 11,992-12-8.

The receipts show an increase of Rs. 2,028-7-9, while the expenditure shows a decrease of Rs. 5,049-3-4 on the Budget Estimate.

There is an increase in Receipts under the heads of "Subscriptions," "Interest on Investments," "Rent of Rooms," and "Miscellaneous." "Subscriptions" were estimated at Rs. 7,000, while the actuals were Rs. 7,729, the excess being due to some of the arrear subscriptions from members having been realized. Owing to the unexpected sale of the Society's publications, "Sale of Publications" shows an increase of Rs. 649-3-6. During the year temporary Investments were made and there is thus an increase of Rs. 327-8-0 under the head of "Interest on Investments." "Rent of Rooms" shows an increase of Rs. 100. This is due to an additional room with an adjoining small room being leased to the Photographic Society of India. "Miscellaneous Receipts" were estimated at Rs. 100, whilst the actual receipts were Rs. 322-12-3. The difference is explained by the fact that a donation of Rs 250 was received from His Highness the Maharaja Scindia, for the printing of certain plates in the Society's *Journal*, Part I.

On the Expenditure side the items of "Commission," "Lighting," "Contingencies," "Binding," and "*Journal*, Part I" show an increase. Owing to some of the arrear subscriptions having been realized, there is an increase of Rs. 48-5-6 under the head of "Commission." "Lighting" shows a very slight increase. The amount budgetted for under the head of Contingencies has been exceeded by Rs. 110-1-10. This is due to providing the Jamadar and the Durwan with new clothing for the

cold weather, and for sundry repairs to the water connection. During the year, it was found necessary to bind many old books belonging to the English library, thus there is an increase of Rs. 281-4-0 under the head of "Binding." There is a slight increase of Rs. 153-7-6 under the head of "*Journal*, Part I." An expenditure of Rs. 564-5-0 only appears under the head of "Books," in consequence of the non-receipt of Messrs. Luzac & Co.'s accounts, the books purchased through the London Agents amounting to £99-16-3. *Journal*, Part II, and *Proceedings* show a decrease. This is due to non-presentation of Baptist Mission Press bills during the year.

There was one extraordinary item of expenditure during 1896, not provided for in the Budget. Rs. 581 was remitted to Mr. C. J. Rodgers in part payment for preparing the Society's Coin Catalogue.

The actual expenditure on the "*Journal*" and "*Proceedings*" was as follows:—

<i>Journal</i>	{	Part I	...	Rs.	2,253	7	6
		Part II	...	...	1,373	13	6
		Part III	...	...	457	7	9
<i>Proceedings</i>			...	...	790	12	6
					<hr/>		
Total Rs.					4,875	9	3
					<hr/>		

This is less than the Budget Estimate by Rs. 3,324-6-9, but all the bills for *Journal*, Part III, during the past year have not yet been submitted.

The Budget Estimate of probable ordinary Receipts and Expenditure for 1897 has been fixed as follows:—Receipts Rs. 17,800; Expenditure Rs. 16,700.

On the Receipt side, the estimated incomes under the heads of "Subscriptions," "Sale of Publications," and "Interest on Investments" is based upon the actuals of the last year. "Rent of Rooms" has been increased owing to the increased rent paid by the Photographic Society of India for additional accommodation.

On the Expenditure side, the items of "Commission," "Lighting," and "Printing Circulars" have been slightly increased. "Salaries" and "Stationery" have been increased by Rs. 100, and Binding Rs. 250. There is a new item of Rs. 100 under the head of "Petty Repairs." The other heads remain unaffected.

Beyond the Auditor's fee, no other extraordinary expenditure is anticipated during 1897.

The details of Budget Estimates are as follows:—

### Receipts.

Subscriptions ...	...	Rs. 7,200	0	0
Sale of Publications ...	...	600	0	0
Interest on Investments ...	...	5,700	0	0
Rent of Rooms ...	...	1,200	0	0
Government Allowances ...	...	3,000	0	0
Miscellaneous ...	...	100	0	0
Total		Rs. 17,800	0	0

### Expenditure.

Salaries ...	...	Rs. 3,500	0	0
Commission ...	...	450	0	0
Pension ...	...	52	0	0
Stationery ...	...	200	0	0
Lighting ...	...	48	0	0
Municipal Taxes ...	...	819	0	0
Postage ...	...	600	0	0
Freight ...	...	30	0	0
Meetings ...	...	80	0	0
Contingencies ...	...	150	0	0
Petty Repairs ...	...	100	0	0
Books ...	...	1,500	0	0
Local Periodicals ...	...	16	0	0
Binding ...	...	750	0	0
<i>Journal</i> , Part I ...	...	2,100	0	0
"    "    II ...	...	2,100	0	0
"    "    III ...	...	3,000	0	0
<i>Proceedings</i> ...	...	1,000	0	0
Printing Circulars, &c. ...	...	200	0	0
Registration Fee ...	...	5	0	0
Total		Rs. 16,700	0	0

### London Agency.

The number of copies of parts of the *Journal*, of the *Proceedings*, and of the *Bibliotheca Indica*, sent to Messrs. Luzac and Co., during the year 1896, for sale, were 448, 214, and 610, valued at £65-14-0,



£12-10-6, and Rs. 291-12-0, respectively; other books were sent for sale amounting to £2-5-0.

Nine invoices of books purchased, and of publications of various Societies sent in exchange, were received during the year. The value of the books purchased amounted to £99-16-3.

#### Continental Agency.

The number of copies of parts of the *Journal*, of the *Proceedings*, of the Annual Address, and of the *Bibliotheca Indica* sent to Mr. Otto Harrassowitz, the Society's Continental Agent, during 1896, for sale, were 35, 80, 5, and 341, valued at £5-5-0, £3-11-3, £0-7-6, and Rs. 202-8-0, respectively. Other books were sent for sale amounting to Rs. 11-8-0.

#### Library.

The total number of volumes, or parts of volumes added to the Library during the year was 1,932, of which 516 were purchased and 1,416 presented or received in exchange for the Society's publications.

The compilation of a new edition of the Society's Library Catalogue is far advanced and it is hoped before the close of the year the Catalogue will be published.

#### Publications.

There were published during the year nine numbers of the "*Proceedings*" (Nos. 9 and 10 of 1895, and Nos. 1-6 and 8 of 1896), containing 172 pages of letter-press and 8 plates; four numbers of the *Journal*, Part I (Nos. 3 and 4 of 1895 and Nos. 1 and 2 of 1896), containing 421 pages of letter-press and 11 plates; four numbers of the *Journal*, Part II (No. 3 of 1895, and Nos. 1-3 of 1896), containing 801 pages of letter-press and 10 plates. The Annual Address of the President was printed separately from the *Proceedings* and contained 77 pages of letter-press. Indexes to the *Journal*, Parts I and II, for 1895, and Part III for 1893, were also published.

#### Barclay Memorial Fund Medal.

During the year 1896, Dr. G. Bomford, on behalf of the Surgeon-General, Indian Medical Service, offered to make over to the Society the Barclay Memorial Fund Medal, together with a sum of about five hundred rupees belonging to the Fund.

The Council resolved to accept the Medal. The conditions under which the Medal should be awarded were referred to a Sub-Committee, consisting of Colonel Waterhouse, Dr. Cunningham, and Dr. Alcock.

The Sub-Committee considered that the Medal should be in bronze

and that arrangements should be made to have it struck at the Mint and that the dies should be sent there at once for safe keeping. They also considered that it should be given for the most important piece of work done in research in any one year in Zoology or Botany specially relating to India.

The Council approved of the Report of the Sub-Committee and agreed to the award of the Medal being announced every year at the Annual General Meeting of the Society. The question of the award being brought up in the December Meeting of Council of each year.

#### Coin Cabinet.

During the year 54 coins were added to the Cabinet, all being of silver. They were all presented under the Treasure Trove Act, *viz.*, 41 by the Government of Bengal, 2 by the Government of Bombay, and 11 by the Government of Madras. They comprise coins of the following classes: Moghuls 27, punch-marked 11, Assamese 2, *Ghaznavi* (of *Subaktigin*) 14. Among the last-named there were two very rare varieties. The remainder belong to well-known types. Detailed notices of all will be found in the Society's *Proceedings* for January, 1897.

#### Office of Secretaries.

Dr. G. A. Grierson carried on the duties of the Philological Secretary and Editor of the *Journal*, Part I, till February, when he was transferred to Bankipur, and Dr. G. Ranking took charge of the Philological Secretaryship, and Dr. Grierson continued to edit the *Journal*, Part I. Dr. Grierson resigned the editorship of the *Journal*, Part I, in November owing to ill health, and Dr. A. F. R. Hoernle agreed to carry on the work as a temporary measure till other arrangements were made.

Dr. A. W. Alcock carried on the duties of Natural History Secretary and Editor of the *Journal*, Part II, till September, when he left India on furlough and Mr. F. Finn was appointed.

Mr. F. Finn carried on the duties of the Anthropological Secretary till July when he resigned and Mr. L. de Nicéville was appointed.

Mr. C. Little carried on the duties of Treasurer throughout the year.

Mr. C. R. Wilson carried on the duties of General Secretary and Editor of the *Proceedings* throughout the year except for two months, from May to June, when Dr. Alcock officiated for him.

Pandit Haraprasād Chastri was in charge of the *Bibliotheca Indica* and the search of Sanskrit Manuscripts and carried on the duties of Joint-Philological Secretary throughout the year.

Mr. J. H. Elliott continued Assistant Secretary and Librarian throughout the year.

Paṇḍit Harimohan Vidyābhūṣaṇa, the Paṇḍit of the Society was allowed further leave, without pay, for one year from May 1896 under the existing officiating arrangements.

There were no other changes in the office establishment.

#### BIBLIOTHECA INDICA.

The editing charges of 26, and the printing charges of 17, fasciculi were paid for; the total outlay being Rupees 6,744; in round numbers. The average cost of each fasciculus, including both the charges, is 324 Rupees.

A descriptive catalogue of the works published is given below :—

#### A. ARABIC-PERSIAN SERIES.

1. The English translation of Badaoni's celebrated work entitled *Muntakhab-ut-Tawarikh* has advanced by one fasciculus only (Fasc. II) under the editorship of Dr. George Ranking who is embellishing the text with copious notes of great historical and linguistic interest.

#### B. SANSKRIT SERIES.

1. The *Aitareya Brāhmaṇa*, next to the *R̥g Veda Saṃhitā*, the oldest Vedic work under the distinguished editorship of Paṇḍit Śaṭya-vrata Sāmaṅgaṃī has advanced by seven fasciculi, Vol. II, 4 and 5; and Vol. III, 1 to 5. This edition contains the commentary of Śayanā-cāryya in full.

2. *Anubhāṣyam*. A commentary on the Vedānta Aphorisms by Vallabhācāryya, the Founder of the Western or Guzarat School of Vaiṣṇavism in the Sixteenth Century, has advanced by one fasciculus only, namely, the third, under the editorship of Paṇḍit Hemacandra Bhaṭṭācāryya.

3. Professor Dr. Garbes' edition of the *Āpastamba Āraṇṭha Sūtras* was stopped after the publication of the first two volumes for want of MSS. to edit from. On procuring good MSS. the Doctor resumed the work during the year under review and published one fasciculus the first of volume III.

4. The English translation of the *Mārkaṇḍeya Purāṇa* under the editorship of Mr. F. E. Pargiter, C. S., has advanced by one fasciculus only, namely, the fourth. This translation is accompanied with illustrative notes.

5. *Nyāyavārtika* by Udyotakara, a commentary on Vātsāyana Bhāṣya on the Aphorisms of Gautama is an important work on the Nyāya system of Philosophy. It has advanced by one fasciculus only (Fasc. III) during the year, under the editorship of Paṇḍit Vindhyesvariprasād Dube of Benares.

6. **Padumwāt.** A Hindi Poem by Mir Malik Muḥammad Jaisi is an important work both as regards its poetical merits and its philological value. It has been proposed to publish a critical edition of the work with an English translation and notes. Paṇḍit Sudhākar Dvivedi the well-known Hindu Mathematician of Benares has undertaken the task of editing the text and Dr. Grierson, C.I.E., Ph. D., that of translating it. The work has advanced by one fasciculus, Fasc. I.

7. **Taittiriya Saṁhitā** of the Black Yajur Veda has advanced by two fasciculi, namely, Fascs. XL. and L. under the editorship of Paṇḍit Satyavratra Sāmnaṣramī.

8. **Tattva Cintāmaṇi** by Gangeṣa Upādhyāya is the standard work on the Nyāya system of Hindu Philosophy of the Bengal School. Paṇḍit Kāmākhyā-nāthā Tarkavāgiṣa, the editor has published two fasciculi of the work accompanied with the Commentary of Mathurā-nāth, Vol. V, Fasc. 2 to 4. Three parts have been published in four volumes. This is the first volume of the Fourth Part.

9. **Brhat-Svayambhū Purāṇa** is a standard work on Buddhism as current in Nepāl. It is a store-house of legends and traditions of that interesting valley. The edition has advanced by one fasciculus only under the editorship of Paṇḍit Haraprasād Qāstrī.

*List of all Societies, Institutions, &c., to which the Publications of the Asiatic Society have been sent during the year, or from which publications have been received.*

\* Societies, &c., which have received the Asiatic Society's publications, and have sent their publications in return.

† Societies, &c., which have received the Asiatic Society's publications, but have sent none in return.

§ Societies, &c., whose publications have been received, but to which none have been sent in return.

\* Allahabad :—Editor, *Pioneer*.

† Amsterdam :—Royal Zoological Society.

\* ——— :—Koninklijke Akademie van Wetenschappen.

\* Angers :—Société d' Etudes Scientifiques d' Angers.

\* Baltimore :—Johns Hopkins University.

\* Batavia :—Society of Arts and Sciences.

\* ——— :—Kon. Natuurkundige Vereeniging in Nederlandsch-Indië.

§ Berlin :—Entomologische Verein.

\* ——— :—Gesellschaft Naturforschende Freunde zu Berlin.

\* ——— :—Royal Academy of Sciences.

† Berne :—Société Suisse d' Entomologie.

- \* Bombay :—Bombay Anthropological Society.
- \* ——— :—Bombay Branch, Royal Asiatic Society.
- \* ——— :—Editor, *Indian Antiquary*.
- \* ——— :—Editor, *Times of India*.
- \* ——— :—Natural History Society.
- † Bonn :—University of Bonn.
- † Bordeaux :—L' Académie Nationale des Sciences, Belles-Lettres et Arts.
- \* ——— : Société Linnéenne.
- § Boston :—American Philological Association.
- \* ——— :—Natural History Society.
- § ——— :—American Oriental Society.
- \* Brisbane :—Royal Society of Queensland.
- † Brookville :—Society of Natural History.
- † Brunswick :—Verein für Naturwissenschaft.
- \* Brussels :—L' Académie Royale des Sciences.
- \* ——— :—Musée Royal d' Histoire Naturelle de Belgique.
- † ——— :—Société Entomologique de Belgique.
- § ——— :—La Société Royal Malacologique de Belgique.
- † Budapest :—Hungarian Central Bureau for Ornithological Observations.
- § ——— :—Royal Hungarian Academy of Sciences.
- † Buenos Ayres :—National Museum.
- \* ——— :—Academia Nacional de Ciencias de la Republica Argentina.
- \* Caen :—Société de Linnéenne de Normandie.
- † Calcutta :—Agri-Horticultural Society of India.
- \* ——— :—Geological Survey of India.
- \* ——— :—Editor, *Englishman*.
- \* ——— :—Editor, *Indian Daily News*.
- § ——— :—Editor, *Indian Engineering*.
- § ——— :—Editor, *Indian Journal of Pharmacy*.
- \* ——— :—Editor, *Indian Mirror*.
- § ——— :—Editor, *Indian Lancet*.
- § ——— :—Indian Meteorological Department.
- \* ——— :—Indian Museum.
- § ——— :—Mahabodhi Society.
- § ——— :—Microscopical Society.
- § ——— :—Editor, *National Magazine*.
- § ——— :—Photographic Society of India.
- \* ——— :—Survey of India.
- \* ——— :—Tuttobodhini Shova.
- † ——— :—University Library.

- \* Cambridge :—University Library.
- \* Cassel :—Die Verein für Naturkunde.
- \* Cherbourg :—Société Nationale des Sciences Naturelles.
- \* Chicago, Ill. :—Editor, *American Antiquarian and Oriental Journal*.
- § ——— :—Chicago Academy of Sciences.
- \* ——— :—Field Columbian Museum.
- \* Christiana :—University Library.
- \* Colombo :—Ceylon Branch, Royal Asiatic Society.
- \* Copenhagen :—La Société Royale des Antiquaires du Nord.
- † Cuttack :—Cuttack Library.
- \* Danzig :—Naturforschende Gesellschaft.
- \* Dehra Dun :—Great Trigonometrical Survey.
- \* Dresden :—Entomologischer Verein "Iris."
- † ——— :—Königlich Zoologisches und Anthropologisch-Ethnographisches Museum zu Dresden.
- \* Dublin :—Royal Dublin Society.
- \* ——— :—Royal Irish Academy.
- \* Edinburgh :—Royal Society.
- § ——— :—Royal Physical Society.
- † ——— :—Scottish Geographical Society.
- \* Florence :—Società Italiana di Anthropologia, Etnologia e Piscologia Comparata.
- † ——— :—Società Africana d'Italia.
- \* Frankfurt :—Senckenbergische Naturforschende Gesellschaft.
- \* ——— :—Naturwissenschaftlicher Verein des Reg.-Bez Frankfurt.
- † Geneva :—Société de Physique et d' Histoire Naturelle.
- \* Genoa :—Museo Civico di Storia Naturale.
- † Giessen :—Oberhessische Gesellschaft für Natur und Heilkunde.
- † Graz :—Naturwissenschaftlicher Verein für Styria.
- \* Hague :—Koninklijk Instituut voor de Taal-Land-en Volkenkunde van Nederlansch-Indië.
- \* ——— :—Netherlands Entomological Society.
- † Hamburgh :—Naturhistorisches Museum zu Hamburgh.
- \* ——— :—Naturwissenschaftlicher Verein.
- § Halifax :—Nova Scotian Institute of Science.
- † Halle :—Deutsche Morgenländische Gesellschaft.
- \* ——— :—Kaiserliche Leopoldinisch-Carlinische Akademie.
- \* Hamilton (Canada) :—Hamilton Association.
- \* Havre :—Société de Géographie Commerciale du Havre.
- \* Helsingfors :—Societas pro Flora et Fauna Fennica.
- † ——— :—Société Finno Ongreinne.
- \* ——— :—Société des Sciences de Finlande.

- § Iasi:—Organul Societății Științifice și Literare din Iași.
- § Ithaca (U. S. A.):—Cornell University.
- † Kiev:—Société des Naturalistes.
- \* Königsberg:—Die Physikalische-Oekonomische Gesellschaft.
- \* La Plata:—Museo de La Plata Republica Argentina.
- \* Lahore:—Editor, *Civil and Military Gazette*.
- † ———:—Agricultural Society.
- § Leipzig:—Deutsche Morgenländische Gesellschaft.
- § ———:—Die K. Sächsische Gesellschaft der Wissenschaften.
- † Leyden:—Royal Herbarium.
- \* Liège:—Société Géologique de Belgique.
- \* Liverpool:—Literary and Philosophical Society.
- \* London:—Anthropological Institute.
- \* ———:—Editor, *Academy*.
- \* ———:—Editor, *Athenæum*.
- \* ———:—British Museum.
- § ———:—Editor, *British Review*.
- \* ———:—Geological Society.
- \* ———:—Institution of Civil Engineers.
- \* ———:—Institution of Electrical Engineers.
- \* ———:—Institution of Mechanical Engineers.
- \* London:—Editor, *Nature*.
- \* ———:—Linnean Society.
- \* ———:—Royal Asiatic Society of Great Britain and Ireland.
- \* ———:—Royal Astronomical Society.
- \* ———:—Royal Geographical Society.
- \* ———:—Royal Institution of Great Britain.
- \* ———:—Royal Microscopical Society.
- \* ———:—Royal Society.
- \* ———:—Statistical Society.
- \* ———:—Zoological Society.
- † Lyons:—La Société d' Agriculture, d' Histoire Naturelle et des Arts Utiles.
- † ———:—Muséum d' Histoire Naturelle,
- † ———:—La Société d' Anthropologie.
- \* Madison, Wiss.:—Wisconsin Academy of Sciences, Arts and Letters.
- † Madras:—Literary Society.
- \* ———:—Government Central Museum.
- § ———:—Editor, *Indian Journal of Education*.
- § ———:—Editor, *Madras Journal of Literature and Science*.
- † Melbourne:—Royal Society of Victoria.
- § Meriden, Conn.:—Meridan Scientific Association.

- \* Manchester :—Literary and Philosophical Society.
- \* Mexico :—Sociedad Científica "Antonio Alzate."
- § Montevideo :—Museo Nacional de Montevideo.
- \* Moscow :—Société Imperiale des Naturalistes.
- \* Munich :—K. Bayerische Akademie der Wissenschaften.
- \* Nantes :—Société des Sciences Naturelles de L' ouest de la France.
- † Naples :—Società Africana d' Italia.
- † New Haven :—Connecticut Academy of Arts and Sciences.
- § ——— :—Yale University.
- \* Newport (R. I.) :—Natural History Society.
- \* New York :—American Museum of Natural History.
- \* Ottawa :—Geological and Natural History Survey of the Dominion of Canada.
- § ——— :—Royal Society of Canada.
- † Oxford :—Bodleian Library.
- † ——— :—Indian Institute.
- \* Paris :—Société de Géographie.
- \* ——— :—Société d' Anthropologie.
- \* ——— :—Société Asiatique.
- § ——— :—Société Philomathique de Paris.
- \* ——— :—Musée Guimet.
- † ——— :—National Library.
- \* ——— :—Société Zoologique.
- † ——— :—Société Académique Indo-Chinoise.
- \* ——— :—Muséum d' Histoire Naturelle.
- \* Pennsylvania :—University of Pennsylvania.
- \* Philadelphia :—Academy of Natural Sciences.
- § ——— :—American Academy of Political and Social Science.
- § ——— :—American Philosophical Society.
- † ——— :—Editor, *Journal of Comparative Medicine and Surgery*.
- \* Pisa :—Société Toscana di Scienze Naturali.
- § Prague :—K. K. Sternwarte.
- § Roorkee :—Editor, *Indian Forester*.
- † St. Louis :—Academy of Science of St. Louis.
- \* St. Petersburg :—Comité Géologique.
- † ——— :—Imperial Library.
- \* ——— :—Russian Geographical Society.
- \* ——— :—Académie Impériale des Sciences.
- \* ——— :—Horti Petropolitani.
- § ——— :—Die Russisch-Kaiserliche Mineralogische Gesellschaft zu St. Petersburg.
- † San Francisco :—Californian Academy of Arts and Sciences.



- † Santiago :—Deutscher Wissenschaftlicher Verein.
  - § Schaffhausen :—Swiss Entomological Society.
  - † Shanghai :—China Branch, Royal Asiatic Society.
  - † Simla :—United Service Institution of India.
  - † Stettin :—Entomological Society.
  - \* Stockholm :—Entomologische Tidskrift.
  - \* ——— :—Royal Swedish Academy of Sciences.
  - \* Stuttgart :—Der Verein für vaterländische Naturkunde in Württemberg.
  - \* Sydney :—Royal Society of New South Wales.
  - † ——— :—Anthropological Society of Australia.
  - \* ——— :—Linnean Society of New South Wales.
  - § Taiping :—Government of Perak.
  - \* Toronto :—Canadian Institute.
  - \* Tokyo :—Imperial University of Japan.
  - † Trieste :—Société Adriatica de Scienze Naturali.
  - † ——— :—Museo Civico di Storia Naturale.
  - \* Tring :—Zoological Museum.
  - \* Turin :—Reale Accademia delle Scienze.
  - † Ulwar :—Ulwar Library.
  - \* Upsala :—University of Upsala.
  - \* Vienna :—Anthropologische Gesellschaft,
  - \* ——— :—K. K. Akademie der Wissenschaften.
  - \* ——— :—K. K. Geologische Reichsanstalt.
  - \* ——— :—K. K. Naturhistorische Hofmuseum.
  - \* ——— :—K. K. Zoologisch-Botanische Gesellschaft.
  - § Washington :—American Historical Associations.
  - § ——— :—Biological Society of Washington.
  - † ——— :—Commissioners of the Department of Agriculture.
  - \* ——— :—Smithsonian Institution.
  - \* ——— :—United States Geological Survey.
  - § ——— :—United States National Museum.
  - \* Wellington :—New Zealand Institute.
  - \* ——— :—Polynesian Society.
  - \* Yokohama :—Asiatic Society.
  - \* ——— :—Deutsche Gesellschaft für Natur und Völkerkunde Ostasiens.
  - \* Zagreb :—Archæological Society.
  - \* Zurich :—Naturforschende Gesellschaft.
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## ABSTRACT OF PROCEEDINGS OF COUNCIL DURING 1896.

## January 30th, Ordinary Meeting.

On the recommendation of the Philological Secretary, a copy of the Mahabharat, in Persian, in two volumes, price Rs. 15, was ordered to be purchased for the Society's Library.

In reply to a letter from Professor H. Jacobi, stating that the Bonn University had in their possession the Society's *Journal* up to Vol. XL and asking to be supplied with a copy of the subsequent volumes, the Council ordered that, as a special case, the Lassen set should be completed, and all future publications sent to the University of Bonn.

A letter forwarding a report of the Council of the Royal Society regarding the proposed Catalogue of Scientific Literature, together with letters addressed to the Marquess of Salisbury, The Rt. Hon. Joseph Chamberlain and Lord George Hamilton on the same subject, was referred to a Sub-Committee, consisting of the President, Dr. Alcock, Dr. Prain, and Col. Waterhouse for report.

An offer by Maulvic Abdus Salam, of his services for translating the Riyāzu-s-Salātin for the *Bibliotheca Indica*, was accepted.

At the suggestion of a Sub-Committee appointed by the Council, it was ordered that Sir Joseph Lister, Professor Michael Foster, Professor F. Kielhorn, and Professor C. R. Lanman should be proposed at the next General Meeting for Honorary Membership. Registered letters were ordered to be sent to certain corresponding members on the list, of whose continued existence the Society had no proof.

The Budget of the expenses of the *Bibliotheca Indica* drawn up by the Philological Committee for the year 1896 was approved.

At the request of Dr. Hoernle, a grant of Rs. 500 to Mr. Rodgers, in part payment for his work in cataloguing the Society's Coins, was sanctioned.

## February 27th, Ordinary Meeting.

A letter from the Under-Secretary to the Government of Bengal, General Department, having been received, forwarding copies of letters from the Government of India, Home Department, covering copies of letters from the Honorary Secretary, Nagari Pracharini Sabha, Benares, requesting the Society to supply it with a copy of the lists of Sanskrit and Hindi Manuscripts when published, it was resolved to accede to this request, and to recommend to the Home Department that the Sabha be granted lists of Sanskrit Manuscripts.

The Sub-Librarian, Trinity College, Cambridge, was supplied with Vols. I—VIII of the Notices of Sanskrit Manuscripts.

Messrs. Luzac & Co. were informed that any orders received direct from England would, in future, be referred to them.

Professor Jacobi was supplied with certain numbers of the *Bibliotheca Indica*.

A copy of the Society's Library Catalogue was presented to the British Museum, London.

A copy of Tavernier's Travels in India, translated with notes by Valentine Ball, in 2 vols., was ordered to be purchased for the Society's Library.

With reference to a letter from the Master, Her Majesty's Mint, Calcutta, acknowledging the receipt of a pair of dies for the Barclay Memorial Fund Medal and stating that the reverse die was very much rusted, it was ordered that a new die should be prepared at the cost of Rs. 150.

With reference to a proposal by the Philological Secretary, to publish a very elaborate Grammar of the Kāṣmīrī language, written some years ago by the late Pandit Iqvarakaula, it was resolved to apply to the Government of the Punjab and to the Kashmir Durbar, enquiring whether they would be disposed to give any assistance to this useful work.

The Sub-Committee appointed to consider the correspondence from the Royal Society, London, on the subject of the proposed Catalogue of Scientific Literature, submitted the following resolutions for confirmation:—

1. That the Asiatic Society of Bengal write to the Royal Society giving *cordial* support to the scheme.
2. That the Asiatic Society of Bengal suggest that the scientific publications of each country shall, in the first place, be catalogued by some institution or institutions in that country who will undertake to send in the portions of the catalogue so prepared to a central office or bureau in London.
3. That the Asiatic Society of Bengal offer to undertake this work for the countries under the Government of India.
4. That a Committee of the Council be formed to superintend this work, each member taking a section of the work to include a certain group of sciences.
5. That the catalogue should contain the titles of all scientific publications appearing in the countries under the Government of India, whether published in periodical form or independently arranged, not only according to the author's name but also according to subject matters.
6. That if the cost of clerical assistance for the work is small the Asiatic Society of Bengal will be willing to defray it, but if it is at all

large the Asiatic Society of Bengal will apply to the Government of India for assistance.

7. That if the catalogue should take the form of a card catalogue to be sent to London, the Society will keep a copy of the list so formed and publish it in its *Proceedings*.

8. That it is unnecessary to submit any more detailed scheme till further communications have been received from the Royal Society.

It was accordingly ordered that the report of the Sub-Committee be approved, and a reply sent on the lines suggested.

The Sub-Committee appointed to consider the question of the Barclay Memorial Medal, recommended that the medal should be in bronze and that arrangements should be made to have it struck at the mint, and that the dies should be sent there at once for safe keeping. They also considered that it should be given for the most important piece of work done in research in any one year in Zoology or Botany, specially relating to India. It was accordingly resolved as follows:— That the report of the Sub-Committee be accepted, that the award of the medal be announced every year at the Annual Meeting of the Society, and that the question of the award be brought up in the December meeting of Council each year.

Dr. Grierson having intimated that he would not be able to carry on the duties of the Philological Secretary as he was permanently transferred from Howrah to Bankipur, but that if there was any difficulty experienced in finding a successor, he would be happy to continue the editing of the *Journal*, Part I., the Council resolved to accept Dr. Grierson's offer to continue the editorship of the *Journal* for a year."

A Committee was formed consisting of the President, Dr. Cunningham, Dr. Alcock, Mr. Holland and Dr. Mahendra Lal Sarkar, with power to add to their number, to invite subscriptions and take such steps as they considered necessary to further the purpose of the Huxley Memorial.

The Essay on the transformation of hypochlorites into chlorates by Jyoti Bhusan Bhaduri, the recipient of the Elliott Prize for Scientific Research on Chemistry in 1895, was ordered to be read at the next meeting and published in the *Journal*.

On the recommendation of the Secretary, copies of Hunter's Orissa, and of Hunter's Annals of Rural Bengal, were ordered to be purchased for the Society's library.

#### *March 26th, Ordinary Meeting.*

The Superintendent, Baptist Mission Press, was allowed an extra charge of two annas per page throughout the translation of "Al-

Badaoni" as a special case, in consequence of the unusual number of notes in small type.

The Huxley Memorial Committee having submitted a report to the effect that circulars had been sent out to some 100 persons, that already Rs. 152 had been subscribed and Rs. 202 promised, and that the subscriptions received would be advertised in the *Indian Daily News*, it was ordered that steps should be taken to get the matter noticed in leading European and Native newspapers.

A letter from General Tennant asking the Society to take steps to collect information in anticipation of the total eclipse of the sun on the 21st January 1898, was referred to a committee consisting of the President, Colonel Waterhouse, Mr. John Eliot, and Bābu Pratapa Candra Ghosā with power to add to their number.

The Council resolved to thank the Agent, East Indian Railway, for his courtesy in granting a free pass for the conveyance of the Philological Secretary's box between Bankipur and Calcutta and *vice versa*, and to send him a copy of the Society's *Journal* Part I, free of charge, as long as the arrangement continued.

The Council agreed to an extra grant of Rs. 450, for the *Proceedings* for the printing of four plates illustrating Mr. Caddy's article "On two unrecorded sculptures in the Ananta Cave, Khandagiri."

On the recommendation of the Secretary, copies of Orme's *Historical Fragments of the Mogul Empire*, and of Petrie's *Ten Year's Digging in Egypt*, were ordered to be purchased for the Society's library.

#### *April 30th, Ordinary Meeting.*

A letter from the Under-Secretary to the Government of Bengal, General Department, forwarding copy of a letter from the Assistant Secretary to the Government of India, Home Department, conveying the approval of the Government of India to the name of Nagari Pracharini Sabha, Benares, being included in the list of societies to whom catalogues of Sanskrit Manuscripts are sent, was ordered to be recorded and the decision communicated to the Sabha.

Dozy's *Historia Abbadidarum præmissis Scriptorum Arabum de eadynastia locis nunc primum editis*, Vols. II and III, price 8 florins, 5 cents, was ordered to be purchased for the Society's Library.

In reply to a letter regarding the proposed exploration of certain archaeological remains on the Ratnagiri Hill in Orissa, the Under-Secretary to the Government of Bengal, Public Works Department, was informed that the Council were of opinion that the remains were worth exploration and suggested that Mr. Caddy be employed to supervise the work.

In reply to a letter about increased accommodation, the Secretary, Photographic Society of India, was informed that the Council were willing to grant the increased accommodation asked for at Rs. 40 a month, on condition that proper lease should be drawn and executed for the whole four rooms occupied, that the agreement should be terminable on six months' notice on either side, and that the Photographic Society should provide a separate water-supply for their own use.

Pandit Harimohan Vidyabhusan, the pandit of the Society, was granted further leave of one year from May 1896.

On the recommendation of the Secretary, a copy of the translation of the Memoirs of Zehil-ud-din Muhammad Babar, Emperor of Hindustan, was ordered to be purchased at a reasonable price, for the Society's Library.

Dr. Alcock consented to look to any urgent work during Mr. Wilson's absence.

It was agreed to allow Rupee 1-12 a page instead of the sanctioned rate of Rupee 1 a page for the compilation of the index to the *Tabaqat-i-Nasiri*.

*May 28th, Ordinary Meeting.*

Mr. C. J. Rodgers' report on the Sangla Tibba in the Gujranwala District, in connection with the question of quarrying that hill for the purpose of supplying ballast for the Wazirabad-Lyallpur Railway, was ordered to be published in the *Proceedings*.

The exchange of the Society's *Journal*, Part III. for the publications of the Anthropological Society of Australasia was sanctioned.

Permission was granted to Dr. Friedrich Schwally to retain the manuscript of "*Kitabul-Mashasinwal Masawi*" for another three or four months.

A letter was recorded from the Under-Secretary to the Government of Bengal, Public Works Department, stating that Mr. A. E. Caddy was at present away on deputation and that the work of exploring the archaeological remains on the Ratnagiri Hill in Orissa, would have to wait till next cold season, when perhaps Mr. Caddy would be available or a regular archaeological officer appointed to the Province, or to the Indian Museum.

The Natural History Secretary was ordered to report at the next General Meeting, that Rs. 884 had been collected for the Huxley Memorial Fund, and to remit the same to England.

*June 25th, Ordinary Meeting.*

On the recommendation of the Joint Philological Secretary, it was agreed to purchase Dutt's English translation of the *Çrimaldbhāgavatam*, Book II, and subsequent volumes for the Society's Library.

A letter from the Under-Secretary, Government of Bengal, in charge Foreign Office, enquiring if the Society would undertake the publication of the History of the Khojas of Eastern Turkistan summarised from the *Tazkārū-i-khwajagān* of Muhammad Sādek, Kashghari, by the late Robert Barkley Shaw, edited with Introduction and Notes by N. Elias, was referred to Dr. Grierson.

The Photographic Society of India having accepted the terms offered them for the lease of two additional rooms on a monthly rental of Rs. 100 for the entire premises occupied by them, the lease to commence from the 1st August 1896, the arrangement was approved.

The offer of the Manager, Khadga Vilas Press, Bankipur, to print the edition of Iswara Kaula's Kashmiri Grammar at Rupee 1-10 a page, royal octavo, was approved.

The proposal of Surgeon-Leiut.-Col. G. Ranking to translate "*Ahsunu-l-tagāsīm fī mānīfate-l-Agatīm*," for the *Bibliotheca Indica*, was agreed to.

*July 20th, Ordinary Meeting.*

A letter from Messrs. Roberts, Lubbock and Co., London, acknowledging the receipt of £51-4-1, on account of the Huxley Memorial Fund through the Asiatic Society of Bengal, was recorded.

An exchange of publications from 1896 was sanctioned with the Field Columbian Museum, Chicago.

A donation of Rs. 250 by His Highness the Maharajah Scindia for printing certain plates to illustrate Mr. C. Maries' paper on coins of the Native States, was acknowledged with thanks and ordered to be announced at the General Meeting.

The resignation of Mr. F. Finn as Anthropological Secretary of the Society was accepted, and the council appointed Mr. L. de Nicéville to the vacant post.

With reference to a letter from Monsieur E. Senart on the subject of the Oriental Congress to be held in Paris, 5th-12th September, 1897, it was resolved to form a Sub-Committee consisting of Dr. Hoernle, Babu Pratapa Candra Ghose and Pandit Haraprasad Chastri, to comply as far as possible with the requests contained in Monsieur Senart's letter.

The draft lease of the rooms proposed to be rented by the Photographic Society of India, was ordered to be engrossed, executed, and registered.

With reference to a letter from the Under-Secretary to the Government of Bengal, in charge Foreign Office, forwarding the History of the Khojas of Eastern Turkistan by the late R. B. Shaw, edited with introduction and notes by N. Elias for publication in the Society's

*Journal*, it was resolved to ask the Government of India to assist in the publication.

It was agreed to thank Mr. John Eliot for the great trouble he had taken in drawing up a note in order to give the chief meteorological features of the tract of country in India through which the Solar Eclipse of January 1898 will pass.

In reply to a letter on the subject of a proposed journey to discover the sources of the Irrawady asking for certain assistance, Lieutenant Eldrid Pottinger was informed that the Society was not in a position to help pecuniarily. It was, however, resolved to write to the Government of India to recommend that sanction be given to Mr. Pottinger's proposed journey of exploration.

*August 27th, Ordinary Meeting.*

On an application from the Chief Librarian, Royal University of Upsala, it was agreed to send that University, Notices of Sanskrit Manuscripts, Vols. I-X, *Journal*, Parts I-II from 1893 and Proceedings and *Journal*, Part III, from 1896, in exchange for its publications.

The purchase of a copy of Whitehead's *Exploration of Mount Kina Balu*, North Borneo, price £2-17-6, for the Society's Library was sanctioned.

Permission was given to Mahabir Prasad to republish Dr. Mitra's translation of the *Yoga Bhashya* by Vyasa on the usual conditions, viz:—that the name of the translator be prominently mentioned with the fact that it was originally published by the Asiatic Society of Bengal, that no alteration be made in the body of the text and that if alterations are to be made they are to be given in foot-notes.

*September 26th, Ordinary Meeting.*

An exchange of publications with the Museo de La Plata, was agreed to.

It was resolved to prepare a copy of the manuscript of "*Bandhāyana-grhyasūtra*" and send it to Dr. W. Caland of Breda.

Dr. Alcock, having resigned the office of Natural History Secretary, it was ordered that the thanks of the Society be given to him for the valuable work he has done for the Society and that Mr. Finn be appointed in his place.

The question of buying a second copy of Munshi Mohamed Padshah's *Arabic and Persian Dictionary*, in 3 vols., was referred to Dr. Ranking.

A letter from the Deputy Secretary to the Government of India, Foreign Department, stating that it had been decided after full consideration that the permission asked for by Lieutenant Pottinger regarding the



proposed exploration in the direction of the Bor Kampti country and the sources of the Irrawady could not be granted, was recorded.

*October 29th, Ordinary Meeting.*

The request of Pandit Nilmoni Mukerji to be allowed to borrow more than two manuscripts at a time for the purpose of re-writing certain manuscripts in the Library of the Sanskrit College, was agreed to, with a limit of a total of five at a time.

A letter from the Assistant Secretary to the Government of India, Home Department, stating that the Government of India had pleasure in allowing the Society to print the summarised translation of the *Tazkārū-i-khwajagān* by the late Mr. R. B. Shaw with an introduction and notes by Mr. Ney Elias at the office of the Superintendent of Government Printing, India, free of cost on the understanding that the edition was limited to five hundred copies and that as many of these as the Governor General in Council might require were to be reserved for his use, was recorded.

The selling price of "Padumawāti" was fixed at Rs. 2.

*November 26th, Ordinary Meeting.*

With reference to a letter from the Under-Secretary to the Government of Bengal, Revenue Department, forwarding copy of a letter from the Assistant Secretary to the Government of India, Home Department, requesting that the name of Mr. Kashinath Pandurang Paral of Bombay might be added to the list of persons to whom catalogues of Sanskrit Manuscripts are distributed and that he might be supplied with copies of all past reports and catalogues so far as they could be conveniently spared, it was ordered that Mr. Paral should be supplied with all the notices of Sanskrit Manuscripts available.

Dr. Grierson having resigned the editorship of the Journal, Part I, stating that Dr. Hoernle had consented to take up the work as a temporary measure till other arrangements are made, the council by a resolution expressed their regret at Dr. Grierson's resignation and thanked him for the work he had done for the Society.

On the recommendation of the Anthropological Secretary, the purchase of a copy of Roth's *Natives of Sarawak and British North Borneo*, Vols. 1-2, price 50 shillings, was sanctioned.

Owing to the high price of grain, the menial servants who drew less than Rs. 8 a month except the dufftries, were allowed an extra rupee from 1st November till further orders.

On the recommendation of the Secretary, the purchase of a copy of the "Memoir of the Life and Correspondence of John Lord Teignmouth" by his son Lord Teignmouth, Vols. 1-2, price Rs. 15, was sanctioned.

It was agreed to allow the Superintendent, Baptist Mission Press, to charge annas eight a page for reprinting 30 Extra copies of Dr. King's Material of the Flora for the Malayan Peninsula, No. 8.

The purchase on behalf of the Society of G. P. note of  $3\frac{1}{2}$  per cent. of the nominal value of Rs. 5,000, was approved.

*December 17th, Ordinary Meeting.*

A copy of the Journal of Geology, published at Chicago, was ordered to be subscribed for.

At the suggestion of the Natural History Secretary, it was agreed that Mr. Holland's notes on the Rocks collected by the Afghan Boundary Commission of 1896 should be made over to the Geological Survey for publication in its records.

The Report having been read, the Chairman invited the meeting to put any questions or to offer any remarks which any Member might think necessary in connection therewith.

No remarks having been offered, the Chairman moved the adoption of the Report. The motion was unanimously carried.

The Chairman then read the Report of the Trustees of the "Elliott Prize for Scientific Research."

*Report on the "Elliott Prize for Scientific Research" for 1896.*

The Trustees have received Essays from the following competitors for the prize:—

1. Babu Jnan Saran Chakravarti, M.A., Assistant Professor of Science, Canning College, Lucknow:—

On a few points in connection with the theory of thunderstorms due to Eales and Herschel.

2. Babu Kanti Bhusan Sen:—

On Mica and its proposed practical uses.

The Trustees, after consulting experts as provided in the scheme, adjudge the prize for the year 1896 to Babu Jnan Saran Chakravarti, M.A.

E. J. TREVELYAN,	} Trustees.
Vice-Chancellor, Calcutta University.	
A. CROFT,	
Director of Public Instruction, Bengal.	
ALEX. PEDLER,	} Trustees.
President, Asiatic Society of Bengal.	

CALCUTTA:  
14th January, 1897. }

The Chairman announced that the Barclay Memorial Fund Medal would be given for the most important piece of work done in research in Zoology or Botany specially relating to India during 1897.

The Chairman announced that the Scrutineers reported the result of the election of Officers and Members of Council to be as follows :—

*President.*

Dr. A. F. R. Hoernle.

*Vice-Presidents.*

Col. J. Waterhouse, B.S.C.

A. Pedler, Esq., F.R.S.

The Most Rev. Archbishop P. Goethals, D.D., S.J.

*Secretaries and Treasurer.*

Dr. G. Ranking, M.D.

F. Finn, Esq., B.A.

L. de Nicéville, Esq., F.E.S.

C. R. Wilson, Esq., M.A.

Pandit Haraprasād Castrī, M.A.

C. Little, Esq., M.A.

*Other Members of Council.*

Bābu Pratāpa Candra Ghōṣa, B.A.

Dr. D. D. Cunningham, F.R.S., C.I.E.

Dr. G. Watt, C.I.E.

Dr. P. K. Ray.

R. D. Oldham, Esq., F.G.S.

Dr. A. R. S. Anderson.

A. T. Pringle, Esq.

G. W. Kūchler, Esq., M.A.

The Meeting was then resolved into the Ordinary General Meeting.

Dr. A. F. R. Hoernle, President, in the chair.

Dr. Hoernle, on taking the chair, said :—

“Gentlemen, before we proceed to the ordinary business of this meeting, I wish to tender you my warm acknowledgment of the honour which you have done me by electing me to the responsible position of President of this Society. It is with mixed feelings that, after long hesitation, I have decided to accept the post,—feelings of diffidence in my power of doing justice to its requirements, and feelings of pride in

being permitted, at the end of my Indian career, to preside over a Society which holds such a distinguished place in the learned world, of which I am now one of the oldest resident European members, and which I have had the honour and the pleasure of serving as Philological Secretary for a long term of years. For, looking back on the years passed, I may truly say that my labours for the Society have been a pleasure to me, a relief amidst the drudgery of the ordinary Indian life. A very distinguished member of the Society, Horace Hayman Wilson, once said with regard to his own labours for the Society that they had made many hours of leisure in this country slip happily away. To have many hours of leisure for scientific work is an experience which I fear is not given to any of us in these days of professional work under high pressure. To me that will always be one of the sad reminiscences of this "land of regrets." However, it is a comfort to know that the prosperity of the Society depends not so much on its President, as on its Secretaries and other officers; and I feel sure, that I may rely on their extending to me the same measure of hearty co-operation with which they have supported my able predecessors during their terms of office. I would, therefore, now ask you to pass a cordial vote of thanks to the retiring President, the Vice-Presidents, the Secretaries and the Council, who, in the past year, have given so ungrudgingly their time and strength to the conduct of the affairs of the Society."

*The vote of thanks was carried unanimously.*

The minutes of the last meeting were read and confirmed.

Fifty-three presentations were announced, details of which are given in the Library List appended.

The following gentlemen duly proposed and seconded at the last Meeting of the Society were ballotted for and elected Ordinary Members:—

Walter Weber, Esq.

Dr. Th. Bloch.

H. H. Hayden, Esq.

C. W. Peake, Esq.

The following gentlemen have expressed a wish to withdraw from the Society:—

Bābu Peary Mohan Roy.

A. F. M. Abdur Rahman, Esq.

In accordance with Council order, the names of the following corresponding Members have been struck off from the list of Members:—

The Rev. J. Porter.

A. Murray, Esq.

Dr. J. Macgowan.

The Secretary reported the death of the following Members :—  
 Nawab Ashgar Ali Diler Jung Bahadur, C.S.I.  
 Prince Farrukh Shah.

The President laid on the table the Budget of expenses on the *Bibliotheca Indica* for 1897 drawn up by the Philological Committee and approved by the Council.

# PROCEEDINGS OF THE PHILOLOGICAL COMMITTEE.

29th January, 1897.

## PRESENT :

Dr. A. F. Rudolf Hoernle, *in the chair*.  
 Dr. G. Ranking, *Phil. Secy.*  
 Paṇḍit Haraprasād Čāstrī, *Jt. Phil. Secy.*  
 Rai Čaratcandra Dās, Bāhādur, C.I.E.  
 Bābū Pratāpacandra Ghoṣa.  
 Paṇḍit Satyavrata Sāmaçramī.

## REPORT FOR SUBMISSION TO THE COUNCIL AT THE MEETING OF 29TH JANUARY, 1897.

(1) *Resolved* : The Assistant Secretary is to be instructed to produce the despatches of the Court of Directors relating to the rules of the *Bibliotheca Indica*, published in the *Proceedings* of 1835 and 1856, for circulation to Philological Committee with reference to the consideration of the question of re-printing certain works in the *Bibliotheca Indica*.

(2) The Budget Estimate submitted by the Joint Secretary, Paṇḍit Haraprasād Čāstrī is approved, in the following revised form :

RECEIPTS.			DISBURSEMENTS.		
	RS.	AS. P.		RS.	AS. P.
Balance in hand ... ..	12,000	0 0	Tattva-cintāmaṇi ... ..	600	0 0
Government grant for 1897	9,000	0 0	Svayambhū-purāṇa ... ..	350	0 0
			Tul'si-satsai ... ..	300	0 0
Total ... ..	21,000	0 0	Vṛhaddharma-purāṇa ... ..	600	0 0
			Mārkaṇḍeya-purāṇa ... ..	600	0 0
			Nyāya-vārtika ... ..	900	0 0
			Kalpa-latā ... ..	700	0 0
			Caturvarga-cintāmaṇi ... ..	300	0 0
			Taittiriya-saṁhitā ... ..	600	0 0
			Granta-sūtra of Čāmkhāyana	700	0 0
			Aitarēya-brāhmaṇa ... ..	3,000	0 0
			Translation of Muntakhabu-t-tawārīkh ... ..	2,500	0 0
			Carried over ... ..	11,150	0 0

	Rs.	As.	P.		Rs.	As.	P.
Brought forward ...	21,000	0	0	Brought forward ...	11,150	0	0
				Sher Phyin ...	600	0	0
				Translation of Akbar-nāmah ...	600	0	0
				Kālavivēka ...	600	0	0
				Nātādhamma-kathā-sutta ...	300	0	0
				Āpastamba-ṛanta-sūtra ...	700	0	0
				Padumawāti ...	1,300	0	0
				Translation of Riyāzu-s-salā-			
				tin ...	700	0	0
				Aṇubhāṣya ...	600	0	0
				Parāṅgara-smṛti ...	300	0	0
				(the last fasciculus was left incomplete).			
				Bālabhadda ...	300	0	0
				Translation of Suṅgata ...	600	0	0
					17,750	0	0
				NEW BOOKS RECOMMENDED.			
				Sad-dharma-puṇḍarika ...	350	0	0
				Vidhi-viveka ...	300	0	0
				English translation of Al-			
				Muqaddasī ...	600	0	0
				Gadādhara-paddhati...	600	0	0
				Trikāṇḍa-maṇḍana ...	600	0	0
				Prayōga-pārijāta ...	600	0	0
					20,800	0	0

(3) Recommended, that the publication of the new books above named be entrusted to the following gentlemen: Nos. 1 and 2 to Paṇḍit Haraprasāda Ṣāstrī; No. 3 to Dr. G. Ranking; No. 4 to Paṇḍit Sadācīva Miṣra, Head Paṇḍit of the Pūri Zilla School; and Nos. 5 and 6 to Mahāmahōpādhyāya Candrakānta Tarkāṅkārā. No. 1, is a well-known standard work of the Buddhist literature. Its publication has been already sanctioned on a previous occasion by the Society. No. 3, is an important Arabic work on the Topography of Muḥammadan countries, in the fourth century of the Hijrah including Sindh, and parts of India. No. 4, is a standard work on Hindu Law and ritual in Orissa. Nos. 5 and 6 are two important works, one on the Soma-Sacrifice the other on Hīndu Law and ritual. All these works satisfy the ordinary rule that three manuscripts should be available to the Editor. No. 2 is an exception to this rule. Only one manuscript of it exists, which has been lately discovered in Pūri. It is recommended, however, to be published, on account of its great interest and the exceeding improbability of another manuscript being found. Its author is Maṇḍana Miṣra, the great opponent and, afterwards, convert of Ṣaṅkarācārya. The details of this work and its discovery are reported in the *Proceedings* for December, 1896.

(4) The following recommendations of the Joint-Secretary are approved:—

Caturvarga-cintāmaṇi should not be continued, unless suitable MSS. are available.

The Ānandācrama Series have undertaken to publish Aparārka. It may therefore be struck off from the list.

The following work has been stopped for various reasons:—

Lalita-vistara (English Translation).

The following list of works sanctioned and approved by the Council, but not taken in hand, has been drawn up in order of urgency:—

- |                                  |                                    |
|----------------------------------|------------------------------------|
| 1. Hiranya-kēṣi-sūtra (Granta).  | 9. Bhaṭṭōtpala's Commentary on     |
| 2. Baudhāyana-sūtra (Granta).    | the Brhat-saṁhitā.                 |
| 3. Vipāka-sūtra (Jaina).         | 10. Yājñavalkya-gītā (English      |
| 4. Tawārikh-i-Yamīnī.            | Translation).                      |
| 5. Tawārikh-i-Wassāf.            | 11. English Translation of Caraka. |
| 6. Tājū-l-Ma'āṣir.               | 12. Translation of Sāṁkhyapra.     |
| 7. Naqā'idu-l-farazdaq wa Jarīr. | vacana-bhāṣya.                     |
| 8. Karaṇa-grantha.               | 13. Advaita-cintā-kaustubha.       |

The Secretary exhibited drawings from Mahomedan Grave Stones in parts of Kashmir, Chilas and Khagan and some sketches from the Habbakhortan Mosque in Kashmir, forwarded by Mrs. H. G. Murray-Aynsley, and read the following note on them:—

To—The Philological Secretary of the Asiatic Society of Bengal.

Dear Sir,

Kashmir would seem to be a most interesting hunting ground in a direction which has hitherto apparently not been very much studied.

Not only do we find in this country traces of Pre-historic worship, but quite recently only, it has come to my knowledge that the Mahomedan inhabitants of Kashmir and some adjacent districts, have employed both the Cross and the Svastika on some of their buildings whether as an ornament, or a symbol only, it is not easy to determine, and that they also adopt still, the Greek cross on their grave stones. Enclosed (Plate I) are some specimens of the latter from original drawings made on the spot by Dr. Arthur Neve (in West Kashmir and in Chilas) when on tour in September and October in this year (1896), Dr. A. Neve is one of the Medical Missionaries attached to the C. M. S. in Srinagar, and though he has lived there some eight years, had never discovered the Habbakhortan Mosque, situated about two miles

from his house. I have recently been there myself, and also send four drawings (Plate II) taken from the band of carving on its exterior. It is interesting to find there the double triangle as well as the Cross and the Svastika, and I am in hopes that now attention has been called to this subject in the minds of some of the permanent employés and residents, more researches may give still further results as regards the former and the present practices and beliefs of the people of "the Happy Valley." The conquests of Alexander and his armies, would seem to have left their impress on many of the countenances of the Mahomedan population of Kashmir, for we not unfrequently meet with a pure Greek type of features amongst these people; the way also, in which some of the peasants when driving their cows home or out to pasture drape themselves with their Shawl or Chuddar, in every particular recalls certain bas-reliefs in the Museums at Athens, illustrating the same occupation and scene.

I remain dear Sir,

Yours faithfully,

SRINAGAR :

November 10th, 1896.

HARRIET G. M. MURRAY-AYNSLEY.

Rai Çarat Candra Das Bahadur, C.I.E., exhibited the full size portrait (in oils) of a Tibetan Princess taken from life (an Ethnological type), also a drawing of the Grand Monastery of Tashi-lhunpo and a picture of the Buddhist Pantheon of Tibet.

The following papers were read:—

1. *An account of travels on the shores of Lake Yamdo-Croft.*—By RAI ÇARAT CANDRA DAS BAHADUR, C.I.E.

2. *Note on the identity of the Tsangpo of Tibet with the Dihong o Assam.*—By RAI ÇARAT CANDRA DAS BAHADUR, C.I.E.

3. *Nādir Shah and Muhammad Shah.*—By WILLIAM IRVINE, Late of the Bengal Civil Service.

The papers will be published in the *Journal*, Part I.

4. *Noviciae Indicae, XV. Some additional Leguminosae (PAPILIONACEAE).*—By DR. D. PRIN.

The paper will be published in the *Journal*, Part II.

5. *The Antiquity of the Poet Nāgarī Dās and of the Poetess Rasik Bihārī alias Baṇī Thānī.*—By PANDIT MOHANLĀL VISENULAL PĀNDIĀ, M.A.S.B., M.R.A.S., M.G.V.S., late Prime Minister of the Prātābgarh State in Rājputānā.

The paper will be published in the *Journal*, Part I.



6. *Materials for a Flora of the Malayan Peninsula*, No. IX.—By G. KING, M.B., LL.D., F.R.S., C.I.E., Superintendent of the Royal Botanic Garden, Calcutta.

The paper will be published in the *Journal*, Part II.

7. *Note on the Antiquities of Chittagong*.—By RAI CHARAT Candra DAS BAHADUR, C.I.E.

The paper will be published in the *Journal*, Part I.

### LIBRARY.

The following additions have been made to the Library since the meeting held in January last.

### TRANSACTIONS, PROCEEDINGS AND JOURNALS,

*presented by the respective Societies and Editors.*

Berlin. Berliner Entomologische Zeitschrift,—Band XLI, Heft 2 und 3.  
Calcutta. Indian Engineering,—Vol. XXI, Nos. 2-5.

———. The Indian Lancet,—Vol. IX, No. 2.

———. Maha-bodhi Society,—Journal, Vol. V, No. 9.

———. Photographic Society of India,—Journal, Vol. X, No. 1.

Edinburgh. Royal Physical Society,—Proceedings, Vol. XIII, Part 2.

The Hague. Koninklijk Instituut voor de Taal,—Land-en Volkenkunde van Nederlandsch-Indië,—Bijdragen tot de Taal,—Land-en Volkenkunde van Nederlandsch-Indië, 6<sup>e</sup> Volgr., Deel III, Aflevering 1.

London. The Academy,—Nos. 1286-88, and Index to Vol. L.

———. The Athenæum,—Nos. 3608-12.

———. Nature,—Vol. LV, Nos. 1416-20.

———. Royal Astronomical Society,—Monthly Notices, Vol. LVII, Nos. 1 and 2.

———. The Geographical Journal,—Vol. IX, No. 1.

Montevideo. Museo Nacional de Montevideo,—Anales, No. 7.

Mussoorie. The Indian Forester,—Vol. XXIII, No. 1.

Paris. La Société Philomathique de Paris,—Compte-Rendu Sommaire de Séance, No. 4, 1896.

Philadelphia. American Philosophical Society,—Transactions, Vol. XIX (new series), Part 1.

St. Petersburg. Comité Géologique,—Bulletins, Tome XV, Nos. 3 et 4.

Sydney. Linnean Society of New South Wales,—Proceedings, Part 3, 1896.

- Taiping. Perak Government,—Gazette, Vols. IX, Nos. 28-30; X, 1 and 2.
- Tring. Novitates Zoologicae,—Vol. III, No. 4:
- Turin. La Reale Accademia della Scienze di Torino,—Memorie, 2<sup>e</sup> série, Tome XLVI.
- Vienna. Die Anthropologische Gesellschaft in Wien,—Mittheilungen, Band XXVI, Heft 4 und 5.
- . Die K. K. Zoologisch-botanische Gesellschaft in Wien,—Verhandlungen, Band XLVI, Heft 9.
- Washington. Biological Society of Washington,—Proceedings, Vol. X, pp. 134-67, 169-74.

### BOOKS AND PAMPHLETS,

*presented by the Authors, Translators, &c.*

- MACDONALD, K. S. The Brahmanas of the Vedas. 8vo. Madras, 1896.
- PEDLER, ALEX. Description with Plans of the Chemical Laboratory, Presidency College, Calcutta. Fcp. Calcutta, 1896.

### MISCELLANEOUS PRESENTATIONS.

- A Descriptive Catalogue of Sanskrit Manuscript in the Library of the Calcutta Sanskrit College, No. 6. 8vo. Calcutta, 1896.

CALCUTTA SANSKRIT COLLEGE.

- Akademische Festrede zur Feier des Jahresfestes der Grössherzoglich Hessischen Ludewigs—Universität:———

- PASCH, DR. MORITZ. Ueber den Bildungswerth der Mathematik. 4to. Giessen, 1894.

- Akademische Festrede zur Feier des Stiftungsfestes der Grossherzoglich Hessischen—Ludewigs Universität:———

- JORS, PAUL. Die Reichspolitik Kaiser Justinians. 4to. Giessen, 1893.

- Inaugural—Dissertation zur Erlangung der Juristischen Doctorwürde der Juristischen Facultät der Ludewigs—Universität zu Gies sen:———

- FRIEDRICH, JULIUS. Luther und die Kirchenverfassung der Reformatio Ecclesiarum Hassiae von 1526. 8vo. Darmstadt, 1894.

- GEYL, PHILIPP. Auslegung der lex 79 pr. D de heredibus instituendis 28,5. 8vo. Mainz, 1894.

- GLÄSSING, WILHELM. Die conductio indebiti des deutschen Öffentlichen Rechtes. 8vo. Giessen, 1894.

- RIEGER, BERNHARD. Die Hessen—Darmstädtischen Landstände und der absolutismus. 8vo. Darmstadt, 1894.

- SPOHR, CURT. Das Beweisinteresse in Starfsachen. 8vo. Giessen, 1894.

- Inaugural—Dissertation zur Erlangung der veterinär—medizinischen Doctorwürde der Hohen medicinischen Fakultät der Grossherzoglich Hessischen Ludewigs—Universität zu Giessen :——
- ARONSOHN, ARTHUR. Beitrag zur Kenntniss der pathologischen Anatomie des Spates beim Pferde. 8vo. Giessen, 1893.
- BACHERT, WILHELM. Ueber einen Fall von angeborener Rectovaginalfistel mit gleichzeitiger doppelseitiger Hüftgelenkluxation. 8vo. Giessen, 1893.
- BERNET, ADAM. Zur Casuistik des Echinococcus multilocularis. 8vo. Giessen, 1893.
- BRÜHL, CARL. Über Ulcus corneae rodens. 8vo. Giessen, 1893.
- DUSEBERG, GEORG. Zur Casuistik der Rückenmarkstumoren. 8vo. Giessen, 1893.
- HEID, LUDWIG. Ein Fall von hochgradiger cystenartiger Erweiterung des Ductus choledochus. 8vo. Giessen, 1893.
- HESSLER, KARL. Zur Casuistik der diffusen phlegmönösen Oesophagitis. 8vo. Giessen, 1893.
- KERSTEN, GOTTHELF. Ein Beitrag zur Lehre von den Erweichungen der Gebärmuttermyome. 8vo. Giessen, 1893.
- KLOSTERKEMPER, HEINRICH. Beiträge zur Kenntniss der Lungenmykosen der Säugethiere. 8vo. Giessen, 1893.
- KÖELMOOS, HEINRICH. Ueber das Chalazion. 8vo. Giessen, 1893.
- KRANSHAAR, EDUARD. Ueber die Oesophaguscarcinome mit Durchbruch in den linken Vorhof. 8vo. Giessen, 1893.
- KRETSCHMAR, KARL. Über eine Geschwulst der Glandula carotica. 8vo. Giessen, 1893.
- LANG, AUGUST. Gallenstein—Statistik auf Grund der Sektionprotokolle des pathologischen Institutes zu Giessen vom Jahre 1872 bis 1892 incl. 8vo. Giessen, 1893.
- LELLMANN, WILFRIED. Ueber Leberveränderungen nach Unterbindung des Ductus choledochus. 8vo. Giessen, 1893.
- Inaugural—Dessertation zur Erlangung der Doctorwürde der Hohen philosophischen Facultät der Grossherzoglich Hessischen Ludewigs—Universität zu Giessen :——
- BEARDER, JOHN WILLIAM. Über den Gebrauch der Praepositionen in der Altschottischen Poesie. 8vo. Halle, 1894.
- BINDEWALD, WILHELM. Über die Einwirkung von Phosphorpentachlorid auf Oxyazokörper. 8vo. Giessen, 1893.
- EISENSTADT, M. Ueber Bibelkritik in der Talmudischen Literatur. 8vo. Berlin, 1894.
- FINGER, DR. HERMANN. Über Derivate des-o-Amidobenzamids und-o-Amidobenzhydrazids. 8vo. Giessen, 1894.

- JODIDI, S. Beitrag zur Kenntniss des Hydrastins und Narceins. 8vo. Berlin, 1893.
- JUNG, DR. JUR FRICH. Causa Finalis. 8vo. Giessen, 1893.
- KAUFMANN, HERMAN EZECHIEL. Die Anwendung des Buches Hiob in der Rabbinischen Agadah I. Theil Die Tannaitische Interpretation von Hillel bis Chija nach Schulen geordnet. 8vo. Frankfurt, a. M., 1893.
- KOLB, WILHELM. Ueber die Einwirkung von Natriummalonsäureäthyleter auf cyanurchlorid. 8vo. Leipzig, 1894.
- KRAUSS, SAMUEL. Zur Griechischen und Lateinischen Lexikographie aus Jüdischen Quellen. 8vo. Leipzig, 1893.
- LIEBMANN, ALBERT. Spectrophotometrische Untersuchungen. 8vo. Köln, 1893.
- LÜCKEN, EDMUND. Zur Syntax Montchrestiens. 8vo. Darmstadt, 1894.
- MILANI, A. Beiträge zur Kenntniss der Reptilienlunge. I. Lacertilia. 8vo. Jena, 1894.
- MULLER, HENDRIK P. N. Land und Volk Zwischen Zambesi und Limpopo. 8vo. Giessen, 1894.
- OTTO, EDUARD. Die Bevölkerung der Stadt Butzbach (I. D. Wetterau) Während des Mittelalters. 8vo. Darmstadt, 1893.
- SCHLAMP, ANTON. Zur Dissociationstheorie der Lösungen. 8vo. Giessen, 1894.
- WINKLER, ALEXANDER. Beiträge zur Kritik des Midrasch Threni. 8vo. Kaschau, 1894.
- WOHLSTEIN, JOSEPH. Ueber einige aramäische. Inschriften auf Thongefässen des Königlichen Museums zu Berlin. 8vo. München, 1894.
- WOLFSKEHL, KARL. Germanische Werbungssagen. 8vo. Darmstadt, 1893.
- Inaugural—Dessertation behufs erlangung des grades eines Licentiaten der Theologie der Hochwürdigen Theologischen Fakultät zu Giessen :——
- DIEHL, WILHELM. Erklärung von Psalm 47 eine Biblisch—Theologische Untersuchung. 8vo. Giessen, 1894.
- Personal—Bestand der Grossherzoglich Hessischen Ludewigs—Universität zu Giessen, Winterhalbjahr, 1893-94. 8vo. Giessen, 1893.
- . Sommerhalbjahr 1894. 8vo. Giessen, 1894.
- Vorlesungsverzeichniss der Grossherzoglich Hessischen Ludewigs—Universität zu Giessen, Sommerhalbjahr 1894. 8vo. Giessen, 1894.
- . Winterhalbjahr 1894-95. 8vo. Giessen, 1894.
- GIESSEN UNIVERSITY.
- BEAZLEY C. R., AND PRESTAGE, E. The Chronicle of the Discovery and Conquest of Guinea, Vol. I. 8vo. London, 1896.
- GOVERNMENT OF INDIA, HOME DEPARTMENT.

The Agricultural Ledger, Medical and Chemical Series, No 8; Mineral and Metallic Series, No. 8; Vegetable Product Series, Nos. 27, 29 and 30. 8vo. Calcutta, 1896.

GOVERNMENT OF INDIA, REV. AND AGRI. DEPARTMENT.

### PERIODICALS PURCHASED.

Calcutta. The Calcutta Review,—January, 1897.

———. Indian Medical Gazette,—Vol. XXXII, No. 1.

Geneva. Archives des Sciences Physiques et Naturelles,—Tome II (2<sup>e</sup> Série), No. 12.

Leipzig. Annalen der Physik und Chemie,—Band LX, Heft 1.

———. ———. Beiblätter, Band XX, Stück II.

London. Numismatic Circular,—Vol. V, No. 50.

### BOOKS PURCHASED.

CHATTERJEE, MOHENDRANATH. Translation of the Īmadbhāgavatam. Book II: 8vo. Calcutta, 1896.

HUNTER, W. W. Orissa. Vols. I.-II. 8vo. London, 1872.

PETRIE, W. M. F. Ten years' Digging in Egypt 1881-91. 8vo. London, 1893.

RIDDING, C. M. The Kādambari of Bana. 8vo. London, 1896.

SEWELL, R. The Indian Calendar. 4to. London, 1896.

TAKAKUSN, J. A record of the Buddhist Religion as practised in India and the Malay Archipelago. By I-tsing. 8vo. Oxford, 1896.

TEIGNMOUTH, LORD. Memoir of the Life and Correspondence of John Lord Teignmouth, Vols. I.-II. 8vo. London, 1893.

WHITEHEAD, J. Exploration of Mount Kina Balu, North Borneo. 4to. London, 1893.

PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR MARCH, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 3rd March, 1897, at 9-15 P. M.

DR. A. F. R. HOERNLE, President, in the chair.

The following members were present :—

Dr. T. Bloch, J. Mann, Esq., L. de Nicéville, Esq., A. T. Pringle, Esq., The Hon. Mr. Gurnprasād Sēn, C. R. Wilson, Esq.

The minutes of the last meeting were read and confirmed.

Forty-four presentations were announced, details of which are given in the Library List appended.

The following gentlemen have expressed a wish to withdraw from the Society :—

A. Caspersz, Esq.

I. van Verdeau, Esq.

The SECRETARY read the names of the following gentlemen who had been appointed to serve in the various Committees for the present year :—

FINANCE AND VISITING COMMITTEE.

Dr. A. R. S. Anderson.

C. L. Griesbach, Esq.

Bābu Pratāpa Candra Ghoṣa.

A. Pedler, Esq.

The Most Rev. Archbishop P.

Dr. P. K. Ray.

Goethals.

Col. J. Waterhouse.



## LIBRARY COMMITTEE.

The Hon. Mr. Justice Gurudās	Dr. Ācutoṣa Mukherji.
Bannerji.	Paṇḍit Nilmaṇi Mukherji Nyāyā- laṅkāra.
Bābu Gaurdās Baṣāk.	Mahāmahōpādhyāya Mahēṣa Can- dra Nyāyaratna
Dr. D. D. Cunningham.	A. Pedler, Esq.
Bābu Pratāpa Candra Ghōṣa.	A. T. Pringle, Esq.
The Most Rev. Archbishop P.	Dr. Mahēndralāl Sarkār.
Goethals.	Col. R. C. Temple.
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R. Greeven, Esq.	Col. R. C. Temple.
S. C. Laharry, Esq.	E. Thurston, Esq.
J. Mann, Esq.	Dr. G. Watt.

The PRESIDENT announced that the Council had elected Dr. T. Bloch, Editor of the Society's *Journal*, Part I, in the place of Dr. Grierson resigned.

Dr. Hoernle exhibited 6 Copper Coins forwarded by the Superintendent of the Government Museum, Madras, for the Society.

The following papers were read :—

1. *Note on a find of Coins in the Wun District, Barār.*—By CAPTAIN WOLSELEY HAIG, *Officiating Deputy Commissioner of Barār.*

In July 1896, a Gōṇḍ was ploughing his field in the village of Kurālī in the Kēlāpūr Ta'alluqa, of the Wun District, and turned up



with his plough forty small coins. Encouraged by his find he commenced a search, and turned up coins at the rate of a few daily, until he had found 177 coins in all. He tried to keep his discovery a secret, but it came to the ears of the Paṭāl of the village, who recovered from the Gōṇḍ 136 coins and three bangles, which the Gōṇḍ had had made up for himself by the village Sonār out of the balance of the coins. The coins and bangles recovered by the Paṭāl were duly sent by him to the Taḥsildār of the Ta'alluqa, who forwarded them to me. I have examined the coins with the following results:—

- |  |           |
|--|-----------|
| 1. 'ALĀU-D-DĪN MUḤAMMAD <u>SHĀH</u> .  |           |
| Type as in Thomas' "Chronicles of the Pathān Kings of Dihli," No. 135, p. 172. Dates; 701, 702, 703, 704, 711, 713, 714, 715 | ... .. 28 |
| 2. QUTBU-D-DĪN MUBĀRAK <u>SHĀH</u> .   |           |
| (a) Type as in Thomas' "Chronicles," No. 147, p. 182.  |           |
| Date 716. Date on the other coin illegible   | ... 2     |
| (b) Type as in Thomas' "Chronicles," No. 150, p. 182.  |           |
| Date 717. Date on the other coin illegible   | ... 2     |
|  | — 4       |
| 3. GHĪYĀSU-'D-DĪN TUḠHLAQ <u>SHĀH</u> .  |           |
| Type as in Thomas' "Chronicles," No. 164, p. 191.  |           |
| Dates 721, 722, 723, 724, 725, 726. On six of these coins the dates are illegible and on other six they are doubtful         | ... .. 49 |
| 4. MUḤAMMAD BIN TUḠHLAQ <u>SHĀH</u> .  |           |
| Type as in Thomas' "Chronicles," No. 193, p. 216.  |           |
| Dates 732, 733, 734, 736, 737  | ... .. 9  |
| Type as in Thomas' "Chronicles," No. 194, p. 216.  |           |
| Dates 733, 734, 735, 737   | ... .. 46 |
|  | — 55      |
|  | 136       |

2. *Ancient Countries in Eastern India, with a map.*—By F. E. PARGITER, B.A., I.C.S.

3. *Pronominal adjuncts in the Language spoken in the Western and Southern parts of the Panjab.*—By THE REV. TREVOR BOMFORD, M.A., C.M.S., Multan. Communicated by DR. G. A. GRIERSON, C.I.E., I.C.S.

4. *Upagupta, the Fourth Buddhist Patriarch, and High Priest of Aśoka.*—By DR. L. A. WADDELL, LL.D.

The papers will be published in the *Journal*, Part I.

## LIBRARY.

The following additions have been made to the Library since the meeting held in February last:—

## TRANSACTIONS, PROCEEDINGS AND JOURNALS,

*presented by the respective Societies and Editors.*

Berlin. Die Berliner Gesellschaft für Anthropologie, Ethnologie und Urgeschichte,—Verhandlungen, 15. Februar, 1896.

Bombay. Bombay Natural History Society,—Journal, Vol. X, No. 4.

———. Indian Antiquary,—August and September, 1896.

Bordeaux. La Société Linnéenne de Bordeaux,—Actes, Tome XLVIII.

Calcutta. Geological Survey of India,—Memoirs, Vols. XXV and XXVI.

———. Indian Engineering,—Vol. XXI, Nos. 6-9.

———. Indian Lancet,—Vol. X, Nos. 4 and 5.

———. Indian Meteorological Memoirs,—Vols. VII, Parts 6; VIII, 2; IX, 8.

———. Maha-bodhi Society,—Journal, Vol. V, No. 10.

———. Photographic Society of India,—Journal, Vol. X, No. 2.

Cassel. Die Vereins für Naturkunde zu Kassel,—Abhandlungen u Bericht, XLI.

Dresden. Die Gesellschaft Iris zu Dresden,—Deutsche Entomologische Zeitschrift, Band IX, Heft 2.

The Hague. Nederlandsche Entomologische Vereeniging,—Tijdschrift voor Entomologie, Deel XXXIX, Heft 3 und 4.

Lawrence, Kansas. The Kansas University Quarterly,—Vol. V, No. 2.

London. The Academy,—No. 1290-91.

———. The Athenæum,—Nos. 3613-14.

———. Geological Society,—Geological Literature added to the Library during the year ended December 31st, 1896.

———. ———. Quarterly Journal, Vol. LIII, Part 1.

———. ———. ———. General Index to the first fifty volumes, Part I, A—La.

———. Institution of Civil Engineers,—Minutes of Proceedings, Vol. CXXVI., and Brief Subject-Index to Vols. CXIX-CXXVI.

———. Institution of Electrical Engineers,—Journal, Vol. XXV, No. 125.

———. Institution of Mechanical Engineers,—Proceedings, No. 1, 1896.

———. Nature,—Vol. LV, Nos. 1421-24.

- London. Royal Geographical Society,—*Geographical Journal*, Vol. IX, No. 2.
- . Royal Society,—*Proceedings*, Vol. LX, Nos. 360 and 361.
- . Royal Statistical Society.—*Journal*, Vol. LIX, Part 3.
- Lyon. La Société d'Agriculture Sciences et Industrie de Lyon,—*Annales*, 1894 et 1895.
- Munich. Die K. b. Akademie der Wissenschaften zu Munchen,—*Sitzungsberichte*, Math-phys. cl., Heft III, 1896; phil. u. hist. cl., Heft III, 1896.
- Nantes. La Société des Sciences Naturelles de l'ouest de la France,—*Bulletin*, Tome VI, No. 2.
- Ottawa. Royal Society of Canada,—*Proceedings and Transactions*, 2nd Series, Vol. I.
- Paris. Du Muséum d'Histoire Naturelle,—*Bulletin*, Nos. 5 et 6, 1896.
- . La Société d'Anthropologie de Paris,—*Bulletins*, IV<sup>e</sup> Série, Tome VI, Nos. 5 et 6; VII, 1.
- . *Mémoires*, 3<sup>e</sup> Série, Tome I, No. 4; II, I.
- . La Société de Géographie,—*Bulletin*, 7<sup>e</sup> Série, Tome XVII, No. 3.
- . *Comptes Rendus des Séances*, Nos. 17-19, 1896.
- . La Société Philomathique de Paris,—*Comptes Rendus Sommaire de Séances*, Nos. 5 et 6, 1896-7.
- Philadelphia. Academy of Natural Sciences of Philadelphia,—*Proceedings*, Part 3, 1896.
- . American Academy of Political and Social Science,—*Annals*, Vol. IX, No. 1.
- . American Philosophical Society,—*Proceedings*, Vol. XXXV, No. 151.
- Rome. *Rivista Geografica Italiana*,—Tome III, Nos. 10; IV, 1.
- . La Società degli Spettroscopisti Italiani,—*Memorie*, Tome XXV, No. 10.
- St. Petersburg. Russian Imperial Geographical Society,—*Journal*, Vol. XXXII, No. 4.
- . Die Russisch-Kaiserliche Mineralogische Gesellschaft zu St. Petersburg,—*Verhandlungen*, Zweite Serie, Band XXXIII, Heft 2; XXXIV, 1.
- Stockholm. *Entomologisk Tidskrift*, Häft 1-4.
- Taiping. Perak Government,—*Gazette*, Vol. X, Nos. 3 and 4.
- Upsala. Upsala Universitets,—*Arsskrift*, 1861-95.
- . *Bulletin of the Geological Institution*, Vols. I; II, Part I.
- Valparaiso. Die Deutsche Wissenschaftliche Vereins zu Santiago de Chile,—*Verhandlungen*, Band III, Heft 3 und 4.

- Vienna. Die K. K. Geologische Reichsanstalt,—Jahrbuch, Band XLV, Heft 4; XLVI, 1.
- . Verhandlungen, Nrn. 13–15, 1896.
- . Die Kaiserliche Akademie der Wissenschaften,—Archiv für österreichische Geschichte, Band LXXXII, Heft 1 und 2 LXXXIII, 1.
- . Denkschriften, Band LXII.
- . Fontes Rerum Austriacarum, II Abth, Band XLVIII, Heft 1.
- . Sitzungsberichte, Mathem.-Naturw. Cl., Abth. I, Band CIV, Heft 1–10; II A, CIV, 1–10; II B, CIV, 1–10; III, CIV, 1–10.
- . Phil.-hist. Cl., Band CXXXII und CXXXIII.
- . Die K. K. Zoologisch-botanische Gesellschaft,—Verhandlungen, Band XLVI, Heft 10.

### BOOKS AND PAMPHLETS,

*presented by the Authors, Translators, &c.*

- JOLLY, JULIUS. Recht und Sitte. 8vo. Strassburg, 1896.
- REUTER, E. Über die Palpen der Rhopaloceren. 4to. Helsingfors, 1896.
- SINHA, LACHMI NARAYAN. The Story of Virudhaka. 8vo. Calcutta, 1896.

### MISCELLANEOUS PRESENTATIONS,

Report of the Sixth Meeting of the Australian Association for the Advancement of Science. 8vo. Sydney, 1895.

AUSTRALIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, SYDNEY.

Annual of the Trustees of the Australian Museum for 1895. Fcp. Sydney, 1896.

AUSTRALIAN MUSEUM, SYDNEY.

Report of the Director of the Botanical Survey of India in the year 1895–96. Fcp. Calcutta, 1896.

BOTANICAL SURVEY OF INDIA.

Preliminary Programme of the British Association for the Advancement of Science to be held in the city of Toronto in 1897. 8vo. Toronto, 1896.

Report of the Sixty-sixth Meeting of the British Association for the Advancement of Science held at Liverpool in September 1896. 8vo. London, 1896.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, LONDON.

Report on the Administration of the Central Provinces for 1895-96.  
Fcp. Nagpur, 1897.

Returns of the Rail-borne Traffic of the Central Provinces during the  
quarter ending 30th September, 1896. Fcp. Nagpur, 1896.

CHIEF COMMISSIONER, CENTRAL PROVINCES.

STACK, E. Some Tsangla-Bhutanese Sentences, Part III. 8vo. Shil-  
long, 1897.

CHIEF COMMISSIONER, ASSAM.

Cornell Studies in Classical Philology, No. 5. 8vo. Ithaca, 1895.

CORNELL UNIVERSITY.

BENSON, ALBERT H. Spraying. 8vo. Brisbane, 1897.

DEPARTMENT OF AGRICULTURE, BRISBANE.

General Report on Public Instruction in Bengal for 1895-96. Fcp.  
Calcutta, 1896.

Report on the Administration of Bengal for 1895-96. Fcp. Calcutta,  
1897.

Report on the Rail-borne Traffic of Bengal during the year 1895-96.  
Fcp. Calcutta, 1896.

Report on the River-borne Traffic of the Lower Provinces of Bengal and  
on the Inland Trade of Calcutta and on the Trade of Chittagong  
Port for 1895-96. Fcp. Calcutta, 1896.

Returns of the Rail and River-borne Trade of Bengal during the quarter  
ending 30th September 1896. Fcp. Calcutta, 1897.

GOVERNMENT OF BENGAL.

Magnetical and Meteorological Observations made at the Government  
Observatory, Bombay, 1895.

GOVERNMENT OF BOMBAY.

Indian Antiquary for December, Part II, 1895; April, August and Sep-  
tember, 1896. 4to. Bombay, 1896.

Selections from the Records of the Government of India, Home Depart-  
ment, Nos. 331 and 337.

GOVERNMENT OF INDIA, HOME DEPT.

The Agricultural Ledger, Forest series, No. 2. 8vo. Calcutta, 1896.

Epigraphia Indica for September 1896. 4to. Calcutta, 1896.

GOVERNMENT OF INDIA, REV. & AGRI. DEPT.

Report on the Administration of the Madras Presidency for 1895-96.  
Fcp. Madras, 1896.

Report on Epigraphical work in the Madras Presidency from July  
1895 to June 1896. Fcp. Madras, 1896.

GOVERNMENT OF MADRAS.

Annual Report on the Provincial Museum, Lucknow, for the year ending  
31st March, 1896. Fcp. Lucknow, 1896.

GOVERNMENT OF N.-W. P. AND OUDH.

Catalogue of the Sanskrit Manuscripts in the Library of the India Office, Part V. 4to. London, 1896.

INDIA OFFICE, LONDON.

Administration Report of the Marine Survey of India for 1895-96. Fcp. Bombay, 1896.

MARINE SURVEY OF INDIA.

India Weather Review, 1895. 4to. Calcutta, 1896.

Monthly Weather Review from June to September, 1896. 4to. Calcutta, 1896.

METEOROLOGICAL REPORTER TO THE GOVT. OF INDIA.

Ninth Report of the Microscopical Society of Calcutta for 1896. 8vo. Calcutta, 1896.

MICROSCOPICAL SOCIETY OF CALCUTTA.

Den Norske Nordhavs-Expedition 1876-1878. XXIII. Zoologi. Tunicata. 4to. Christiania 1896.

NORWEGIAN NORTH ATLANTIC EXPEDITION.

Annual Report of the Sanitary Commissioner with the Government of India for 1895. Fcp. Calcutta, 1896.

SANITARY COMMISSIONER WITH THE GOVT. OF INDIA.

Meteorological Observations of the St. Xavier's College Observatory from July to December 1896. Sheet.

ST. XAVIER'S COLLEGE, CALCUTTA.

North American Fauna, No. 11. 8vo. Washington, 1896.

UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON.

APTE, RAGHUNATH NARAYAN. The Doctrine of Maya. 8vo. Bombay, 1896.

UNIVERSITY OF BOMBAY.

Sixth Annual Report of the Zemindary Panchayet on the 25th August, 1896.

ZEMINDARY PANCHAYET, CALCUTTA.

### PERIODICALS PURCHASED.

Berlin. Deutsche Litteraturzeitung,—Band XVI, Nrn. 1-25; XVII, 1-41.

———. Die Königl. Gesellschaft der Wissenschaften,—Göttingische gelehrte Anzeigen, Nr. 9, 1896.

———. Journal für die reine und angewandte Mathematik,—Band CXVII, Heft 1.

———. Orientalische Bibliographie,—Band VIII, Heft 1 und 2; IX, 1 und 2.

Calcutta. The Indian Medical Gazette,—February, 1897.

- Cassel. *Botanisches Centralblatt*,—Band LXVII, Nrn. 13; LXVIII, 1-4.
- Geneva. *Archives des Sciences Physiques et Naturelles*,—15th Janvier, 1897.
- Leipzig. *Annalen der Physik und Chemie*,—Band LX, Heft 2.  
 ———. ———. *Beiblätter*, Band XXI, Stück 12; XXI, 1.  
 ———. *Literarisches Centralblatt*,—Nrn 40-44, 1896.
- Leyden. *Internationales Archiv für Ethnographie*,—Band IX, Heft 4 und 5.
- London. *The Annals and Magazine of Natural History*,—Vol. XVIII (6th Series), Nos. 106 and 107.  
 ———. *The Chemical News*,—Vol. LXXIV, Nos. 1923-27.  
 ———. *The Entomologist*,—Vol. XXIX, Nos. 401 and 402.  
 ———. *The Entomologist's Monthly Magazine*,—Vol. VII (2nd Series), No. 83.  
 ———. *The Ibis*,—Vol. II (7th Series), No. 8.  
 ———. *The Journal of Botany*,—Vol. XXXIV, Nos. 406 and 407.  
 ———. *The Journal of Conchology*,—October, 1896.  
 ———. *The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science*,—Vol. XLII (5th Series), Nos. 257 and 258.  
 ———. *Numismatic Circular*,—Vol. V, No. 51.
- New Haven. *The American Journal of Science*,—October, 1896.
- Paris. *L'Académie des Sciences*,—*Comptes Rendus des Seances*, Tome CXXIII, Nos. 12-16.  
 ———. *Annales de Chimie et de Physique*,—Octobre et Novembre, 1896.  
 ———. *Journal des Savants*,—Septembre, 1896.  
 ———. *Revue de Linguistique et de Philologie Comparée*,—Tome XXIX, No. 4.  
 ———. *Revue Scientifique*,—Tome VI (4<sup>e</sup> Série), Nos. 14-18.

### BOOKS PURCHASED,

- BADEN-POWELL, B. H. *The Indian Village Community*, 8vo. London, 1896.
- CHESNEY, GEORGE. *Indian Polity*. 8vo. London, 1894.
- English translation of the *Charaka-Samhitā*, Parts 15 and 16. 8vo. Calcutta, 1896.
- English translation of *Srimadbhagavatam*, Books IX-XII. 8vo. Calcutta, 1896.
- HENSMAN, H. *The Afgan War, 1879-80*. 8vo. London, 1891.
- HOLMES, T. R. E. *A History of the Indian Mutiny*. 8vo. London, 1891.

- HONIGBERGER, J. N. Thirty-five years in the East. 8vo. London, 1852.
- KIRBY, W. F. J. Hübner Exotische Schmetterlinge, Plates 181-220. 4to. Brussels, 1894.
- KNOLLYS, HENRY. Life of General Sir Hope Grant, Vols. I. and II. 8vo. London, 1894.
- Lethierry, L. and Severin, G. Catalogue Général des Hémiptères, Tome III. 8vo. Berlin, 1896,
- LYALL, SIR. A. The Rise and Expansion of the British Dominion in India. 8vo. London, 1894.
- MAURICE, THOMAS. History of Hindostan, Vols. I.-III. 4to. London, 1820.
- ROBERTS, LORD. Forty-one years in India, Vols. I. and II. 8vo. London, 1897.
- The Wealth of India, Vol. IV, Parts 1-6. 8vo. Calcutta, 1896.
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PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR APRIL, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 7th April, 1897, at 9-15 P. M.

DR. A. F. R. HOERNLE, President, in the chair.

The following Members were present :—

Dr. A. R. S. Anderson, Dr. T. Bloch, F. Finn, Esq., The Most Rev. Archbishop P. Goethals, H. Hayden, Esq., J. Mann, Esq., L. de Nicéville, Esq., R. D. Oldham, Esq., Dr. D. Prain, A. T. Pringle, Esq., Dr. Amṛtalāl Sarkār, Paṇḍit Mahēndra Nath Vidyānidhi, C. R. Wilson, Esq.

Visitor :—C. Saunders, Esq.

The minutes of the last meeting were read and confirmed.

Fifty-four presentations were announced, details of which are given in the Library List appended.

The following gentleman is a candidate for election at the next Meeting :—

Paṇḍit Satischandra Vidyābhushan, proposed by Bābu Gaurdās Baṣak, seconded by Paṇḍit Harimohan Vidyābhushan.

The following gentlemen have expressed a wish to withdraw from the Society :—

Dr. D. M. Moir.

Dr. D. D. Cunningham.

The PRESIDENT laid on the table the following communication:—

ROYAL SOCIETY.

BURLINGTON HOUSE,

PICCADILLY,

LONDON, W.,

*February 22nd, 1897.*

SIR,—Upon the invitation of the President and Council of the Royal Society, the Presidents of scientific Societies in London met the President and Officers of the Society on February 9 to consider whether any, and, if so, what, steps should be taken on the part of men of science to commemorate the present 60th year of the reign of Her Gracious Majesty the Queen, a period so rich in scientific discoveries. At that meeting, which was a very representative one, it was unanimously resolved—

that a Fund, to be called *The Victoria Research Fund*, be established, to be administered by representatives of the various scientific Societies, for the encouragement of research in all branches of science.

To raise a Fund of such a kind worthy of the occasion, the active co-operation of all the scientific Societies of the Empire is imperatively necessary; for the Fund, to be so worthy, must be a very large one.

It is not to be expected that scientific Societies would in general contribute out of their corporate funds, though some might be willing to do so; but rather that the several Societies should exert themselves to collect subscriptions to the Fund.

Nor is it to be expected that men of science would themselves furnish the required sum. It is to be hoped that they would contribute so far as each felt able. But the chief gifts are to be looked for from the public, from those who are not themselves engaged in scientific inquiry, and especially perhaps from those whose wealth has been the direct or indirect result of the scientific progress of the Victorian era.

So many demands are at the present moment being made in so many ways upon the purse for the purpose of commemorating the present year, that it may be worthwhile to point out that, the object of the proposed *Victoria Fund* being a lasting one, it is not necessary that the whole Fund should be raised at once. The Fund once established might be increased by subsequent additions, and contributions might be spread over many years, or might not be called in until some future time, so that the burden in the present year might be lightened.

It is proposed that the income of the Victoria Fund should be applied to the advancement of all branches of science in all parts of the British Empire. Should, therefore, the project of the Fund be approved, and the Fund established, its administration will necessitate an organization, the details of which will need most careful consideration in order that the Fund may be used in the best way in all future times; but such details may be left for the present.

Meanwhile, the first step to be taken is to ascertain whether the proposal meets with such general acceptance among men of science as to justify the President and Council in proceeding further in the matter.

I have therefore been requested by my Council to ask you to be so good as to bring the subject before your Society at your earliest convenience, in order to ascertain whether the proposal is approved or not, and at the same time to give the Royal Society the benefit of the advice of your Society upon the whole matter.

I am,

Faithfully yours,

(Signed )            LISTER,

*President of the Royal Society.*

*To the President of the*

*Asiatic Society of Bengal,*

*Calcutta.*

The PRESIDENT reported that the Council recommended the acceptance of the proposal.

The proposal was accordingly accepted.

Dr. Hoernle read reports on the following finds of Treasure Trove coins :—

(I) REPORT ON 42 old coins forwarded by the Deputy Commissioner of Angul, Orissa, with his No. 1844G, dated 21st November, 1896, and with the Commissioner of Cuttack's No. 1420R, dated 28th September, 1896.

The Deputy Commissioner of Angul, in his No. 1407G, dated 15th August, 1896, and addressed to the Commissioner of Orissa reports, that these coins, together with some gold and silver bars enclosed in a cup-shaped copper vessel, were found by a lad, while grazing cattle on some "*toilu*" land in Pargana Talmul, Mauzah Ara, in Ara, in Angul. The date of finding is not stated.

Of the coins, 20 are of gold and 22 of silver. Most of them are of a rare kind, which gives the find a particular numismatic value.

The silver coins, resembling Rupees, belong to three different classes. Two of them belong to the coinage of the early imperial (so-called "Pathan") dynasty of Delhi, one to the later Independent Sultāns of Bengal, and 18 to the Bahmanī dynasty of the Deccan.

The following is a detailed statement :—

I. DELHI IMPERIAL COINAGE.			
'Alāu-d-din Muḥammad Shāh, 695-715 H = 1295-1315 A.D.			
Type, square areas within circles, like Brit. Mus. Cat., No. 164; both coins mutilated and clipped; one shows mint Dihli and date **4; a very common type of coin ...			
	...	...	2
II. BENGAL COINAGE :—			
'Alāu-d-din Husain Shāh, 899-925 H = 1493-1518 A.D.			
Type, lettered surfaces, like Brit. Mus. Cat., No. 130; in fairly good condition, but of a very common variety ...			
	...	...	1
III. BAHMANI COINAGE :—			
(a) Muḥammad Shāh I, 759-776 H = 1358-1375 A.D.			
Type as in Numismatic Chronicle, 3rd Series, Vol. I, 1881, No. 4, date 775, mint Ḥaṣrat Aḥsanābād. ...			
	...	...	1
(b) Maḥmud Shāh I, 720-799 H = 1378-1397 A.D.			
Type as in Thomas' Chronicles, p. 342, No. 303; dates 795 and 79*, mint illegible ...			
	...	...	2
(c) Firūz Shāh, 800-825 H = 1397-1422 A.D.			
Two varieties : (1) as in Br. Mus. Cat. No. 449 and Marsden, Pl. 38, No. DUCCLXXVIII, five coins, dates 816 <sup>3</sup> , 817, 822, 824; (2) new variety: one specimen; date 803. Mint, legible on some, Ḥaṣrat Aḥsanābād ...			
	...	...	6
(d) Aḥmad Shāh II, 838-862 H = 1435-1457 A.D.			
Type as in Num. Chron., No. 16 and Br. Mus. Cat., No. 458, dates 857 <sup>2</sup> , 859 <sup>2</sup> , three illegible. Mint, on some, Ḥaṣrat Aḥsanābād ...			
	...	...	7
(e) Humāyūn Shāh, 862-865 H = 1457-1461 A.D.			
Type as in Num. Chron., No. 17, and Br. Mus. Cat., No. 471, date 863, mint illegible ...			
	...	...	1
(f) Muḥammad Shāh II, 867-887 H = 1463-1482 A.D.			
Type as in Num. Chron., No. 18, dates 87*, 886, mint illegible ...			
	...	...	2
Total			22

The gold coins are small round pieces of gold, very thin, averaging only 8 grains, and about  $3/8$  of an inch in diameter. Eighteen of them have small gold loops attached to them, by which they were found threaded on a piece of string, forming probably a necklet. There are two kinds, consisting of two and eighteen pieces respectively.

The former are stamped on one side only, the back showing the hollows of the obverse stamp. One specimen shows the figure of the anthropoid Garuḍa, turned to the left, the other a rosette; both devices are enclosed by a marginal circle of dots. Possibly the two devices represent the obverse and reverse sides of a coin, and the two sides may have been stamped separately on two distinct pieces of gold to form ornaments.

Of the other kind, 18 pieces, all show on the obverse the figure of a recumbent bull, with a variety of emblems, such as the conch-shell, svastika, etc. The reverse of one has the legend (above) *grigaga* in old Nāgarī characters, and (below) the number 44 between two strokes (卐卐). The remaining seventeen pieces, show (above) an irregular oblong quadrangle between two indistinct symbols, and (below) various numbers, *viz.*, 4 (twice), 9 (thrice), 13 (once), 19 (once), 31 (six times), 33 (thrice), 34 (once). Two of these 18, again, show traces of a legend above the oblong, which appear to make up *gri-gaga*. The numbers would seem to point to a series of years; but whether of an era or of the reign of a king is unknown. No coins of this description appear to have been noticed or published hitherto. In the *International Numismata Orientalia*, Vol. 1, "Coins of Southern India," by Sir Walter Elliot, there is one coin, No. 93 on Plate III, which bears some resemblance to the present coins, but it is too imperfect for identification. It is ascribed by him to the old Hindū kingdom of the Kākatīyas of Warangal, which was conquered by the Bahmanī Sultāns, early in the 15th century, A.D.

(II) REPORT ON two gold coins forwarded by the Officiating Superintendent of the Tributary Mahals, Orissa, with his No. 1164 P.W., dated 16th November, and 10th December, 1896.

These two coins are stated to have been found "on the banks of the river Brāhminī in the Tributary State of Dhenkanal," and to be "locally called *Hoons*."

They are coins of exactly the same type as those recently found in the Angul District of Orissa, and described in the preceding Report. They bear on their reverse the numbers 3 and 34 respectively, which may be the years of either a reign or an era.

The PRESIDENT announced that Mr. C. R. Wilson was proceeding on furlough at the end of the month and that Dr. A. R. S. Anderson would officiate.

The following papers were read:—

1. *Statement of the dialects spoken in Baghelkhand.*—By JANARDAN SINGH, Secretary to H. H. the Maharaja of Rewah. Communicated by DR. G. A. GRIERSON.

No. 47 of 1897.

FROM

THE SECRETARY TO

HIS HIGHNESS THE MAHARAJA OF REWAH,

To

THE POLITICAL AGENT, BAGHELKHAND.

DATED, REWAH DURBAR, CAMP *viâ* REWAH,

*The 13th January, 1897.*

SIR,

With reference to your endorsement No. 2836, dated 16th November, 1896, forwarding a copy of letter, dated 28th September, 1896, from G. A. Grierson, Esq., C.I.E., Ph.D., regarding the Linguistic Survey of India, asking a revised statement of the dialects spoken in Baghelkhand, I have the honor to inform you that a revised statement has been prepared and is forwarded herewith.

2. From the statement annexed herewith which is filled up according to the instructions, you will see that Baghēli or Baghēl-khaṇḍi and Gōṇḍi or Gōṇḍāni are the two dialects spoken in Rewah territory.

3. I do not believe that "Baghēli is nearly identical with Bundēli or Bundēl-khaṇḍi" as Dr. Grierson seems to think. Being spoken in conterminous countries and derived from the same parent stock, there is certainly a good deal of resemblance between the two. They are, however, different forms of speech. Most of the words in Bundēli and Baghēli have the same bases and roots, as is the case with almost all the dialects spoken in Northern and Central India, but a great difference is found in the postpositions and particulars and even the forms of bases of words before receiving the suffixes. This will be clear from the following sentences:—

DIFFERENT POSTPOSITIONS.		DIFFERENT VERBAL ENDINGS.		CHANGES IN THE BASIS BEFORE RECEIVING PARTICLES.	
Baghēli.	Bundēli.	Baghēli.	Bundēli.	Baghēli.	Bundēli.
For him. बोखे नीता	उखे लाने	He said. वा कहिस	उने कही	Is coming? आवत है	आउत है
		He had written. वा लिखिसर है	उने लिखी उतो	Is going? चला जाता है	चलो जात है
Towards the river. नदी केत	नदी कनारै	Art thou not seeing. का ते नही	का ते नही	What do you say? का कहत्या है*	का कहत हो
		देखत हस	देखत है		
I have no money with me. मेरे लघे रुपिया	मोपे रुपैया पैसा	They had already said. उई पहिलेन	उनने पेहलेन	Are you giving? देत्या है. कि देत हो कि नही	नही*
	पैसा नही आय	कहिदिहिन ते	केह दई तो		
By me. मोरे लघे	मोरे दिगाँ	When I went. जब हम गयन	जब हम गये		
		हन			

\* N.B.—य (ya) is added to the bases in Baghelkhandi before the particles.

The intonation with which the Bundēls speak is also different and there are many new words in Bundēli which are not known in Baghēli.

4. The people of Baghelkhand may be divided into several tribes or clans, inhabiting separate parts of the country, and giving distinct names to the tracts they inhabit. But these separate tribes do not speak separate dialects, though each has some peculiar words and expressions of its own. These variations are too few to justify us in giving them distinct names as dialects. There are variations in the pronunciation and forms of words in distances of every few miles. But these are very slight and may be found to change from village to village till they merge into the forms of speech of Allahabad or Mirzapur or other British districts that happen to be in the neighbourhood.

5. It appears to be an orthodox belief that Gōṇḍi or Gōṇḍāni is derived from the Dravidian or some other non-Aryan



language. This might be the case with the Gōṇḍī of the Central Provinces. But the dialect spoken by the Gonds of Rewah is not the non-Aryan dialect which their brethren use in the Central Provinces. They as well as other tribes, namely Kols, Baigas, &c., mostly of aboriginal descent, inhabiting the southern portion of Rewah, on the other side of the Kymore, speak what represents the widest deviation from the Baghēli dialect in the State. Herewith are enclosed a prose passage and some songs of the Gōṇḍī dialect. These will show that the language they speak is mainly Baghēli corrupted and mispronounced with an admixture of some new words, the relics of their aboriginal tongue they once spoke.

I have, &c.,

(Sd.) JANARDUN SINGH,

*Secretary to H. H. the Maharaja of Rewah.*

STATEMENT OF DIALECTS.

1	2	3	4
Local name of the dialect or form of speech. To be written in the local vernacular character and in the Roman character.	Name of language of which it is a dialect.	Approximate number of persons speaking the dialect in the locality to which the return refers.	REMARKS.
बघेली या बघेलखण्डी  Baghēli or Baghēlkhaṇḍī.	Hindi.	1,000,000	
गोंडी या गोंडानी  Gōṇḍī or Gōṇḍānī.	Hindi.	500,000	The Gōṇḍī dialect is confined to the Gonds and other aboriginal tribes inhabiting the eastern and southern parts of the Rewah territory, on the other side of the Kymore ranges.

(Sd.) JANARDUN SINGH,

*Secretary to H. H. the Maharaja of Rewah.*

मंडला जिल्लेमा रहन खंगरेजीमा । हमारे बाप मागिस ह्रीसा । हमरे बापसंग दोऊ भाई मार कुटाई होई गइन । कहिन दाऊ अबतो नह्री देई ह्रीसा । तै लै लै है । जब जियान परी मै तो न जीरु । चाह्री जसकै होइ तसकै तै लै लै है बांटा करेसना । कहिन लठिया से मारके लै लिहिस लठिया तेन दिहिसि तब कौनौ काम कारिस । दिनाय दिहे । भात मा दयऊ त खाय लइसा गौंटिया दइस खोसहात फेर पीन जी गइन । हमरे क्यका के लड़का मोखा इहां लालिन बांधिकै । कहिन कौसन लाना बांधिकै । कहिन या बांटा मांगी त न देई । तो फेर जहर दइस त हमारे बाप मर गइस । कहिन लै जाह रीवां । फेर रीवां लानिन ॥

मण्डला जिल्ले खंगरेजी मे रहते थे — हमारे बापने ह्रीसा मांगा — हमारे बापके साथ दोनो भाई मे मारपीट होगई । बापने मुझसे कहा — बेटा अभीतो हिस्सा नही देता — तुम लै लेना । जब तकलीफ हो मै तो न जिन्दा रहूंगा । चाहे जैसे हो तैसे हिस्सा लै लेना । छोड़ना नहीं । कहा लाठी से मारके लै लेना — लाठी से न देतो कोई काम (तदवीर) करना । जहर देना । मैने भात मे दे दिया । तो उसने खाय लिया । गौंटिया ने दवा दिया सो प लिया और जी गया । मेरे काका के लड़का मुझ को यहां बांध लाय । पूछा क्यों बांधके लाये । कहा यह हिस्सा मागताथा नही दिया सो जहर दिया सो हमारा बाप मरगया कहा (इसको) रीवां ले जाव — तब रीवां लाये ॥

(१) कर वहियां आपना काड़ वहियां विराना अरसरा ।

(२) धरेल टांगा काटेन वांस गोंड बरे घरे खांवा ।

कह जैहै जवाना लैलेहूँ दावा ॥

(३) मै रघुवर संग जाहूँ हो ननद मोरा ।

रघु लिहेन दार भात घौ अछर काय कै ।

धुक धुक खिचरी खवावै हो ननद मोरा ॥

(४) धन कहा गेली रामा लखन धन कहां गेलीहो ।

घाटा चलत रामा लखन कहां गेली ॥

2. *On some new and rare Hindu and Muhammadan Coins, No. IV.*—  
By DR. A. F. R. HOERNLE.

The paper will be published in the *Journal*, Part I.

3. *Note on the gait of the Cotton Teal, with exhibition of living specimens.*—By F. FINN, B.A., F.Z.S.

Authorities on Indian birds seem to be very unanimous in the opinion that the common little Cotton-Teal or Goose-Teal, *Nettopus coromandelianus*, is unable to stand and walk like other ducks.

In G. R. Gray's genera of Birds, Vol. III, the article being dated 1844, in the remarks on the genus *Nettapus* (as there spelt) Blyth is quoted as observing "It is remarkable that the Indian species seems totally incapable of standing or walking upon the ground, but invariably flutters along it in a strange scuffling manner, like a wounded bird." Some years later, Blyth in his Catalogue of the Birds in the Museum, Asiatic Society, (1849), states in a foot-note to page 302, that the birds of this genus never stand up as represented in Mr. Gould's plates (Birds of Australia, *N. pulchellus* and *N. coromandelianus* = *albipennis*) but after walking a few steps, always squat.

Dr. Jerdon, in his Birds of India, Vol. II, Pt. ii, p. 788, observes that Blyth had noticed "the peculiar shuffling gait of these ducks when on land" and quotes the statement given above to the effect that the birds always squat after walking a short distance.

In Blyth's Commentary on Jerdon, (Ibis 1867, p. 175), the former author again says "the published figures of the species of this group, representing them as standing on the ground like ordinary ducks, are erroneous. They squat, creep, and are only able to shuffle forward a few paces."

Finally, Mr. Hume, in the "Game-birds and Wildfowl of India, (1881), Vol. III, p. 104, says "on land they seldom venture, though I have seen them occasionally feeding or resting on small grassy islands; but as Blyth long ago remarked, they cannot walk at all, they only waddle along, shuffling as if their bodies were too heavy for their legs, yet when on trees, . . . . . they stand firm enough, and betray no weakness in the lower extremities." Further on, p. 108, he says, *à propos* of the plate he gives of this species, that "its only fault is, that neither on land nor in water do the birds ever stalk about with their legs visible below them."

It is on account of this consensus of authorities that I have brought for exhibition to-night living birds of this species, to confirm the remarks I am about to make concerning it.

During more than a year past I have had many opportunities of serving Cotton-Teal in confinement, and after watching the gait and movements of numerous specimens, I can confidently assert that the inability to walk attributed to the species by the above excellent observers, is not in reality natural to it, but merely the result of fright, weakness, or injury. [The bird, when frightened, will squat where another duck would stand up.]

Captive birds, even though not perching, frequently stand up with their legs visible beneath them, in the attitude of any ordinary duck, and they also walk in this position, though they will often shuffle along a few steps without rising properly to their feet.

But when walking any greater distance than a few inches (and though prone to lie down frequently, they can on occasion walk for many yards) their gait, though laboured and awkward, is just like that of other ducks, as may be seen in the specimens now exhibited.\*

The habit of walking is not an unnatural one acquired in captivity, as many birds can stand and walk when fresh from the Bazaar. Only the other day a fine male was brought in to me, which walked for several yards as soon as let out of the cage.

Many, in fact the majority of Bazaar birds, however, are frightened or crippled to such an extent that they can only scuffle along as above described; so that I do not wonder that Blyth was misled into thinking that their powers of terrestrial progression were as limited as he says, especially since, judging from his remarks in the *Ibis* paper above cited, wildfowl were even worse treated in the Bazaar than they are at present.

I never saw my birds rest on one leg, and think Blyth may be right in saying that they cannot do so. (*Loc. cit.* Cat. Birds. Mus. As. Soc.).

Mr. Hume's observations, if he actually saw the birds, "wabbling" as he calls it, on the islands, would offer a greater difficulty; but from his language he *may* only have seen them feeding or resting there, and may also have drawn his conclusions as to their gait from Bazaar specimens. I have noticed however that specimens of my own at the edge of the Museum tank frequently lay down to feed on paddy given them there, though when walking their legs showed plainly enough. Among thick grass this might not be so easy to make out, and at the tank I purposely chose the spot in order to observe the birds better.

Mr. Hume therefore need find no fault with his artist in this particular.

To sum up, this bird, though its feet are strong enough for some purposes, as it is an excellent swimmer and diver, and can cling to and climb up wire netting in a remarkable manner, appears to be certainly weak in these members when they are applied to the purpose of walking, and hence is readily disabled. Moreover, it appears normally seldom to leave the water except to perch on trees or buildings.

Nevertheless, when circumstances require it, it is able to stand and to walk like the ordinary members of the family to which it belongs, though its activity appears limited, walking being a power which from the circumstances of its life it is seldom called upon to exercise.

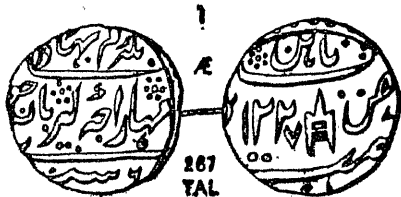
\* Four birds were exhibited in a cage, and at this point let out on the table, where they walked about. These were captive specimens with clipped wings.

4. *Coins struck at Nāhan.*—By C. J. RODGERS.

Sarmūr is a small native state, in the lower Himalayas, not far from Simla. At the present day it is famous for its iron works where sugar mills are made which are hired out to sugar-cane-growing farmers in the plains. The Mahārāja is an enlightened ruler and has in his employ a staff of English Engineers. Nāhan, the chief town of the state is very prosperous and is lighted on European methods. But it is Nāhan at the beginning of the present century I have to deal with. In 1814 it was in the hands of the Gurkhas, and was held by Ranjor Singh Thāpa. On the 24th of December of that year, it was occupied by British troops, and Ranjor Singh retired to Jaithak, a strong fort a little to the north, which he did not evacuate till May 1815, when he was allowed to march out with the arms and accoutrements of his 200 men. This was at the end of the Nepāl War. The Gurkhas had conquered the outer Himalayas as far as Kāngra and had held possession of them for several years. There are coins in existence, struck by the Gurkhas during this occupation. I have seen small silver coins struck at Srinagar in Garhwāl on which is the name of a Mahārāja of Nepāl from which country the Gurkhas came. The coins I give below are of copper, the first was struck at Nāhan during the occupation by the Gurkhas, the second one afterwards. The legends on the first coin I read as follows:—

Obv.:—  
 بکرم بہادر  
 شاہ (۶)  
 مہاراجہ گیربان جو (۵۴)  
 ۶ سر

Rev.:—  
 نامن  
 ضرب ۱۲۲۷ a katār  
 سہیت  
 ۹



i.e., سری مہاراجہ گیربان جو۵۴ شاہ بکرم بہادر

Now, I have edited this coin in my Lahore Catalogue, Pt. IV, p. 64, and have there made some extraordinary mistakes. I could not read the last lines of the obverse as they were not on the coin. They are here plain:—“سری ۶.” The top line I read “ملزم” and in my note I

said Bahādur Shāh was the General of the Mahārāja of Nepāl. From a study of the present coin which belongs to W. S. Talbot, Esq., C. S., Settlement Officer, Jhelum, I see I was wrong and hasten to correct my mistake. On the coins of the later Nepāl Mahārājas the names and titles generally come, in Nāgarī letters, thus:—"C̣rī C̣rī so and so Vikrama Sāha Deva." On this copper coin, reading from the bottom we have;—

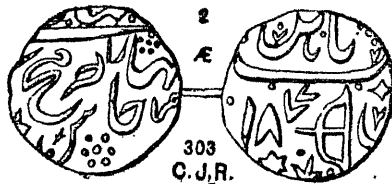
سری مہاراجہ گیریان جودہ بگرم شاہ بہادر

where we see some alterations:—the insertion of "Mahārāja" and the alteration of "Deva" to "Bahādur." गीरवाण युद्धविजय is changed to گیریان جودہ بگرم. I do not recollect seeing the title "Mahārāja" on any other coin of Nepāl. It is common on the coins of Kāngra, and the coins of Sikkim have श्री श्री श्री सिकिम पति माहाराज on them, with the last word spelt महाराज, as a variant. مہاراجہ is also on the coins of Srinagar in Garhwāl, struck by Pradīp Śāh, Lallat Śāh and Parduman Śāh. So this coin of Nāhan follows the coins of Srinagar somewhat.

On the obverse the word I read میمنت, I now read سمیت, although, the year 1227 is the Hijrī year = 1812 A.D.

The only excuse I can offer for these mistakes is that I mistook ملزم for ملازم and then, having started a theory, I made بہادر شاہ a person, whereas the three words بگرم شاہ بہادر are the titles of Gīrvān Yuddh. I can only plead that, in my library, I possess no history of Nāhan except the stray notices given of it, in the eleventh volume of the Gazetteer of the North-West Provinces. The Gazetteer of the Panjab takes up only the British possessions, so it was useless looking in that for anything about Nāhan. The Panjab Government would be conferring a benefit on the public by getting out a Gazetteer of the Native States, in and around the country under immediate British rule.

The second coin I give, I take to be one of Fath Shāh Bahādur Mahārāja, but I cannot make out all the legend on the obverse. He was Mahārāja of Sarmūr. The year seems to be 1877 on the reverse and if this is Samvat, it is equal to 1820 A.D. There is no doubt about the mint Nāhan.



NĀHAN COINS

Both the coins in weight approximate that of the dām of Akbar. The dāms of Akbar abounded in some of the lower Hills some years ago.

I have seen several specimens of each of these Nāhan coins, but no others from that mint.

5. *Note on the breeding of various Birds (Herons and Cormorants) in a wild state in the Alipur Zoological Gardens.*—By RAM BRAHMA SANTAL, Superintendent. With a plate.

The picturesque island with its wealth of vegetation in the middle of the broadest part of the ornamental waters of the garden has, for many years past, been the favourite resort of various kinds of animals.

But the aspect of Nature on the island has, of late, considerably changed. The trees have gradually become more and more bare of leaves, and the ground denuded of vegetation. All this has been brought about by large flocks of Night-herons (*Nycticorax nycticorax*, (L.)), and latterly of Cormorants, having taken possession of the island. Early in the winter of 1892-93, a few Night-herons were observed among the large number of Pond-herons, or Paddy-birds, (*Ardeola grayi*, (Sykes)) that hitherto inhabited the island, but their movements were not particularly watched. With the exception of a few Pond-herons that remained to breed, they all left the place about the middle of February, 1893. At the beginning of the next cold weather the Night-herons began to re-appear. As far as it is remembered, one forenoon about the beginning of November, 1893, a large number of these birds were observed hovering round over the lake as if undecided where to settle. In fact, it took them three or four days before they could finally make up their minds to settle down on the island; choosing, the meantime, some of the densely-foliaged trees of the garden, mostly around the lake, as their hiding places during the day. With the approach of the hot weather their number began to diminish, till they again deserted the island about the middle of March, 1894, to find fresh fields and pastures new. It is, however, believed that some of them must have remained with the Paddy-birds to nest and breed; but as their nests were not visited nothing can be said with certainty about their breeding in that year.

In the winter following a still larger number of them re-appeared and took so complete a possession of the island that the Paddy-birds were obliged to retire in their favour, until the time for migration came, and the majority of the Night-herons left the place, affording the Paddy-birds opportunity to retrieve their lost ground. But it was to a limited extent only, as a great many Night-herons remained behind for the purpose of breeding. About this time a few Cormorants (*Phalacrocorax pygmaeus*, Pall.) appeared on the scene, and became, as will

appear later on, formidable rivals of the Night-herons as regards the possession of the island.

In point of the number of Night-herons the maximum was reached during the cold weather of 1896. From several observations made after sunset, when they would issue forth and wing their way, in parties of varying numbers, towards their feeding grounds, it was calculated that between thirteen and fifteen hundred Night-herons must have been living in the Island. The result of such a vast flock of birds congregating together within a small area and with comparatively few trees to give them shelter has been somewhat disastrous to the vegetation which, instead of being healthy and luxuriant, looks sickly and bare. For the birds, therefore, the place has lost much of its attraction. Not finding the same shelter and hiding places among the almost leafless branches of the trees, a great many of them have taken possession of other trees and shrubs bordering the waters.

It has been already remarked that a large number of Night-herons remained with the Paddy-birds during the summer of 1895, for the purpose of breeding. In the following summer (1896), the number of Night-herons that stayed for the same purpose was so great that the Paddy-birds were obliged to abandon the Island for some time. Night-herons seem to build everywhere; on trees, on shrubs and in tufts of reed-grass close to the ground. The nests are generally unsubstantial and clumsy. Eggs have been collected as early as the latter end of May, but they go on breeding till the end of July, or the middle of August.

The majority of Night-herons return long before sunrise from feeding excursions, and for some time, much fluttering and jostling goes on in the Island. Stragglers are frequently seen rapidly flying and uttering at intervals the characteristic call-note *wāk-wāk*, from which, as is well known, the species has derived its vernacular name. During the cold winter mornings, they are very fond of sunning themselves, and look very conspicuous as they occupy every sunny spot on the trees or shrubs. If the tree or the shrub happens to be thickly covered with leaves they are hardly seen during broad day-light.

Latterly Cormorants have become as conspicuous, though not as interesting a feature of the Island as Night-herons. For some time before others came to live on the Island, a pair of them could, every now and then, be seen disporting themselves in the water around the large group of pandanus growing upon a smaller Island in the lake. It is not unlikely that they attracted others, which having found the place to their liking stayed on. The most interesting event, however, in connection with the occupation of the Island by Cormorants is the coming of a few Snake-birds (*Plotus melanogaster*, (Penn.)) with them



last year. It is yet hoped that they will renew their visit and make up their minds to breed on the Island.\*

6. *On some noteworthy Indian Birds, with exhibition of specimens.*—  
By F. FINN, B.A., F.Z.S.

The paper will be published in the *Journal*, Part II.

\* The plate illustrating part of the island is from a photograph kindly taken by Colonel J. Waterhouse. The herons only are shown, these birds and the Cormorants occupying the island rather alternately than jointly, except when both are breeding. (*Nat. Hist. Sec.*).

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- REMSSEN, IRA. *Organic Chemistry*. 8vo. London, 1886.
- ROBERTSON, SIR GEORGE SCOTT. *The Káfirs of the Hindu-kush*. 8vo. London, 1896.
- ROSCOE, HENRY E. *Spectrum Analysis*. 8vo. London, 1873.

- RUSSELL, WILLIAM HOWARD. *My Diary in India in the year 1858-59.* Vols. I and II. 8vo. London, 1860.
- SAYCE, A. H. *The Hibbert Lectures, 1887. Lectures on the Origin and Growth of Religion, as illustrated by the Religion of the Ancient Babylonians.* 8vo. London, 1887.
- SCELLEN, DR. H. *Spectrum Analysis.* 8vo. London, 1872.
- SCHULTZ, DR. GUSTAV. *Die Chemie des Steinkohlentheers.* Vol. II. 8vo. Braunschweig, 1887-90.
- SCHÜTZENBERGER, P. *On Fermentation.* 8vo. London, 1876.
- SECHU, A. *Le Soheil, Parts, I; II, Nos. 1 et 2. And Atlas.* 8vo. Paris, 1877.
- SHILTON, ALFRED J. *Household Chemistry.* 8vo. London, 1882.
- SMITH, T. ROGER and SLATER, JOHN. *Architecture Classic and Early Christian.* 8vo. London, 1882.
- SPOTTISWOODE, WILLIAM. *Polarisation of Light.* 8vo. London, 1874.
- SPRAGUE, JOHN T. *Electricity.* 8vo. London, 1875.
- STEPHEN, SIR JAMES FITZJAMES. *Story of Nuncomar and the impeachment of Sir Elijah Impey.* Vols. I and II. 8vo. London, 1885.
- STÖCKHARDT, DR. JULIUS ADOLPH. *Principles of Chemistry, illustrated by simple experiments.* 8vo. London, 1855.
- STOKES, GEORGE GABRIEL. *On the beneficial effects of Light.* 8vo. London, 1887.
- . *On Light as a means of Investigation.* 8vo. London, 1885.
- . *On the Nature of Light.* 8vo. London, 1884.
- STORER, FRANK H. *First outlines of a Dictionary of Solubilities of Chemical Substances.* 8vo. Cambridge, 1864.
- STRACHEY, SIR JOHN. *India. New and revised edition.* 8vo. London, 1894.
- TAIT, P. G. *Lectures on some recent advances in Physical Science.* 8vo. London, 1876,
- . *Light.* 8vo. Edinburgh, 1884.
- THIELMANN, LIEUT. BARON MAX. VON. *Journey in the Caucasus, Persia and Turkey in Asia.* Translated by Charles Heneage. Vols. I and II. 8vo. London, 1875.
- THOMSON, J. T. *Sequel to some Glimpses into Life in the Far East.* 8vo. London, 1865.
- THORNTON, EDWARD. *India, its State and Prospects.* 8vo. London, 1835.
- THORPE, T. E. and MUIR, M. M. PATTISON. *Qualitative Chemical Analysis and Laboratory Practice.* 8vo. London, 1878.
- TILDEN, WILLIAM A. *Introduction to the Study of Chemical Philosophy.* 8vo. London, 1876.

- TOLHAUSEN, F. and GARDISSAL, C. D. Technological Dictionary in the English, French and German Languages. Parts I-III. 8vo. Paris, 1864.
- TORRENS, LIEUT.-COL. Travels in Ladâk, Tartary and Kashmir. 8vo. London, 1862.
- TROTTER, CAPTAIN LIONEL JAMES. History of India under Queen Victoria, from 1836 to 1880. Vols. I and II. 8vo. London, 1886.
- . Warren Hastings. 8vo. London, 1878.
- TYNDALL, JOHN. Faraday as a discoverer. 8vo. London, 1884.
- . Heat a Mode of Motion. 8vo. London, 1875.
- . On Radiation. 8vo. London, 1865.
- . Sound. 8vo. London, 1883.
- VINCENT, CHARLES W. The Year-Book of Facts in Science and the Arts, for 1874 and 1875. 8vo. London, 1875-76.
- VOGEL, DR. FRIEDRICH and RÖSSING, DR. ADELBERT. Handbuch der Elektrochemie und Elektrometallurgie. 8vo. Stuttgart, 1891.
- VOGEL, DR. HERMANN W. Practische spectralanalyse indischer Stoffe. 8vo. Nordlingen, 1877.
- WATT, ALEXANDER. Electro-Metallurgy. 8vo. London, 1883.
- . Mechanical Industries explained. 8vo. London, 1881.
- . Scientific Industries explained. Vol. II. 8vo. London, 1881.
- WATTS, W. MARSHALL. Index of Spectra. 8vo. Manchester, 1889.
- WEISS, JULIUS. Die Galvanoplastik. 8vo. Leipzig, 1878.
- WILKINS, W. J. Hindu Mythology, Vedic and Purânic. 8vo. Calcutta, 1882.
- WILLIAM, CHARLES. FITZWILLIAM, EARL. and BOURKE, SIR RICHARD. Correspondence of the Right Honourable Edmund Burke between the year 1744 and the period of his decease, in 1797. Vols. I-IV. 8vo. London, 1844.
- WILLIAMS, W. Manual of Telegraphy. 8vo. London, 1885.
- WILSON, FREDK., J. F. Stereotyping and Electrotyping. 8vo. London.
- WOOLHOUSE, W. S. B. Measures, Weights and Moneys of all Nations. 8vo. London, 1881.
- YATE, LIEUT. A. C. Travels with the Afghan Boundary Commission. 8vo. London, 1887.
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PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR MAY, 1897

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 5th May, 1897, at 9-15 P.M.

COLONEL J. WATERHOUSE, B.S.C., Vice-President, in the chair.

The following members were present:—

Dr. A. R. S. Anderson, Dr. T. Bloch, Bābu Nagendra Nāth Vasu, W. B. Colville, Esq., F. Finn, Esq., J. H. Gilliland, Esq., Tom. D. La Touche, Esq., C. Little, Esq., L. de Nicéville, Esq., R. D. Oldham, Esq., Dr. D. Prain, A. T. Pringle, Esq., Paṇḍit Haraprasād Ṣaṣṭrī.

The minutes of the last meeting were read and confirmed.

Thirty-six presentations were announced, details of which are given in the Library List appended.

The following gentleman is a candidate for election at the next Meeting:—

Bābu Annadāprasād Vasu, M.A., proposed by Paṇḍit Haraprasād Ṣaṣṭrī, seconded by Dr. G. Ranking.

The following papers were read:—

1. *Notes on Coins of Native States.*—By DR. A. F. RUDOLF HOERNLE.  
The paper will be published in the *Journal*, Part I.

2. *Contributions to the Theory of Warning Colours and Mimicry*, No. III. *Experiments with a Tupaia and a Frog.*—By F. FINN, B.A., F.Z.S., Deputy Superintendent of the Indian Museum.  
The paper will be published in the *Journal*, Part II.

3. *The Bajrangarh Mint and Coins.*—By RICHARD BURN, I.C.S.

4. *On the Kaṣmīrī consonantal system.*—By G. A. GRIERSON, PH.D.  
The papers will be published in the *Journal*, Part I.

## LIBRARY.

The following additions have been made to the Library since the meeting held in April last :—

TRANSACTIONS, PROCEEDINGS AND JOURNALS,  
*presented by the respective Societies and Editors.*

- Batavia. Bataviaasch Genootschap van Kunsten en Wetenschappen,—  
Notulen, Deel XXXIV, Aflevering 4.  
———. Tijdschrift voor Indische Taal,-Land-en Volken-  
kunde, Deel XXXIX, Aflevering 5.  
———. Verhandlungen, Band XLVIII.  
Berlin. Zeitschrift für Ethnologie,—Heft 1, 1897.  
Brisbane. Royal Society of Queensland,—Proceedings, Vol. XII.  
Budapest. La Société Hongroise de Géographie,—Bulletin, Tome  
XXIV, Nos. 6-10.  
Calcutta. Indian Engineering,—Vol. XXI, Nos. 15-18.  
———. Indian Lancet,—Vol. IX, Nos. 8 and 9.  
———. Maha-bodhi Society,—Journal, Vol. V, No. 12.  
———. Photographic Society of India,—Journal, Vol. X, No. 5.  
———. The Wealth of India,—Vol. I, No. 3.  
Leipzig. Die Königl. Sächsische Gesellschaft der Wissenschaften,  
—Abhandlungen,—Phil.-Hist. Cl., Band XVI; XVIII, No. 1;  
XXIII, No. 6.  
———. Berichte über die Verhandlungen, Math.-Phy. Cl.,  
V, VI, 1896; Phil.-Hist. Cl., II, III, 1896.  
London. The Academy,—Nos. 1299-1302.  
———. The Athenæum,—Nos. 3622-25.  
———. Institution of Electrical Engineers,—Journal, Vol. XXVI,  
No. 127.  
———. Nature,—Vol. LV, Nos. 1430-33.  
———. Royal Astronomical Society,—Monthly Notices,—Vol. LVII,  
No. 5.  
———. Royal Geographical Society,—Geographical Journal, Vol. IX,  
No. 4.  
Mexico. Instituto Geológico de México,—Boletín, Nos. 4-6.  
Paris. Société de Géographie,—Comptes Rendus des Séances, Nos. 4-7,  
1897.  
Rome. Revista Geografica Italiana,—Tome IV, Nos. 2 et 3.  
———. Società degli Spettroscopisti Italiani,—Memorie, Tome XXV,  
No. 12.

- St. Petersburg. L'Académie Impériale des Sciences de St. Pétersbourg,  
—Bulletin, V<sup>e</sup> Série, Tome VI, No. 2.
- . Comité Géologique,—Bulletins, Tome XV, No. 5, et Supplément au Tome XV.
- . ———. Mémoires, Tome XIV, Nos. 2 et 4.
- . Dië Russisch-Kaiserliche Mineralogische Gesellschaft zu St. Petersburg,—Verhandlungen, Zweite Serie, Band XXXIII, Heft 3.
- Sydney. The Australasian Anthropological Journal,—Vol. I, Nos. 3 and 4.
- Taiping. Perak Government,—Gazette, Vol. X, Nos. 7 and 8.
- Vienna. Die Anthropologische Gesellschaft in Wien,—Mittheilungen, Band XXVII, Heft 1.
- . Die K. K. Geologische Reichsanstalt,—Verhandlungen, Nrn. 1-5, 1897.
- . Die K. K. Zoologisch-botanische Gesellschaft in Wien,—Verhandlungen, Band XLVII, Heft 2.
- Washington. Biological Society of Washington,—Proceedings, Vol. XI, pp. 1-55.
- Wellington. Polynesian Society,—Journal, Vol. VI, No. 1.

### BOOKS AND PAMPHLETS,

*presented by the Authors, Translators, &c.*

- BLOCH, DR. THEODOR. Ueber Das Grhya-Und Dharmasūtra der Vaikhāṇasa. 8vo. Leipzig, 1896.
- HAECKEL, ERNST. Die Amphorideen und Cystoideen. 4to Leipzig, 1896.
- HEMPPEL, ADOLPH. Descriptions of New Species of Rotifera and Protozoa from the Illinois River and Adjacent Waters. 8vo. Springfield, Ill. 1896.
- RUBENS, MORRIS. Anti-Vivisection Exposed. Part I. 8vo. Bombay, 1896.

### MISCELLANEOUS PRESENTATIONS,

- BEIJERINCK, M.W. Ueber Gallbildung und Generationswechsel bei Cynips calicis und über die Circulansgalle. 4to. Amsterdam, 1896.
- CALAND, DR. W. Die Altindischen Todten—und Bestattungsgebräuche. 4to. Amsterdam, 1896.
- HAMBURGER, DR. H. J. Ein Apparat, welcher gestattet, die Gesetze von Filtration und Osmose strömender Flüssigkeiten bei homogenen Membranen zu studiren. 4to. Amsterdam, 1895.
- . Over den invloed der intraabdominale drukking op de resorptie in de buikholte. 4to. Amsterdam, 1896.



- HELTEN, W. L. VAN. Zur lexicologie des Altwestfriesischen. 4to. Amsterdam, 1896.
- KLUYVER, J. C. Over een minimaaloppervlak van tweevoudigen samenhang. 4to. Amsterdam, 1896.
- KOSTER, W. Eene methode ter bepaling van het draaipunt van het oog. 4to. Amsterdam, 1896.
- MULDER, E. Over verbindingen afgeleid van wijnsteenzuur en parabrandigdruivenzuur. 4to. Amsterdam, 1895.
- . AND HERINGA, J. Over een peroxy-salpeterzuur zilver (Eerste und Tweede Verhandeling). 4to. Amsterdam, 1896.
- OVEREEM, M. VAN. De Merkwaardige Punten van den Ingeschreven Veelhoek. 4to. Amsterdam, 1896.
- SCHOOTE, P. H. Het Vierdimensionale Prismoidé. 4to. Amsterdam, 1896.
- SURINGAR, W. F. R. Vierde bijdrage tot de kennis der Melocacti. 4to. Amsterdam, 1896.
- VOGEL, Dr. Fr. Aanteekeningen over Nederlandsche Versteeningen uit het Leidsch Geologisch Museum. 4to. Amsterdam, 1895.
- ZWIERS, H. J. Recherches sur l'orbite de la comète périodique de Holmes et sur les perturbations de son mouvement elliptique. 4to. Amsterdam, 1895.

DIE KONINKLIJKE AKADEMIE VAN WETENSCHAPPEN TE AMSTERDAM.

- BECHMANN, AUGUST VON. Der churbayerische Kanzler Alois Freiherr von Kreittmayr. 4to. München, 1896.

DIE K. B. AKADEMIE DER WISSENSCHAFTEN ZU MÜNCHEN.

- Australasian Anthropological Journal for September, 1896. 4to. Sydney, 1896.

ANTHROPOLOGICAL SOCIETY OF AUSTRALASIA.

- AGER, DEMETRIUS C. Lord William Bentinck. 8vo. Oxford, 1892.
- TON, J. S. Mountstuart Elphinstone. 8vo. Oxford, 1892.
- ON-KARR, W. S. The Marquess Cornwallis. 8vo. Oxford, 1890.
- NTER, SIR W. W. The Marquess of Dalhousie. 8vo. Oxford, 1890.
- ELSON, COLONEL G.B. Duplex. 8vo. Oxford, 1890.
- . Life of the Marquess Wellesley. 8vo. London, 1889.
- TEMPLE, SIR RICHARD. James Thomason. 8vo. Oxford, 1893.

H. K. W. ARNOLD, ESQ.

- BARTB, J. P. J. Overzicht der Afdeeling Soekadana. 4to. Batavia, 1896.
- BRANDES, DR. J. Pararaton (ken Arok) of Het Boek der Koningen van Tumapel en van Majapahit, Uitgegeven en toegelicht. 4to. Batavia, 1896.

RANNEFT, W. MEIJER. Verklaring van de meest Bekende Javaansche Raadsels in Poëzie. 4to. Batavia, 1896.

BATAVIAASCH GENOOTSCHAP VAN KUNSTEN EN WETESCHAPPEN.

Guide to the British Mycetoza exhibited in the Department of Botany British Museum, London. 8vo. London, 1895.

BRITISH MUSEUM, LONDON.

Returns of the Rail-Borne Traffic of the Central Provinces during the quarter ending 30th June 1896. Fcp. Nagpur, 1896.

CHIEF COMMISSIONER, CENTRAL PROVINCES.

Illustrated official Handbook to the Aquarium, Picture Salon, and Museum Collections under the control of the exhibition Trustees, Melbourne. 4to. Melbourne.

EXHIBITION TRUSTEES, MELBOURNE.

Triennial Report of the workings of the Charitable Dispensaries under the Government of Bengal for the years, 1893, 1894 and 1895. Fcp. Calcutta, 1896.

GOVERNMENT OF BENGAL.

Catalogue raisonné des livres et des manuscrits japonais enregistrés, à la Bibliothèque de l'Université de Leyde. 4to. Leyde, 1896.

L'UNIVERSITÉ DE LEYDE.

### PERIODICALS PURCHASED.

Calcutta. Indian Medical Gazette,—April, 1897.

Chicago. The Journal of Geology,—Vol. V, No. 2.

Geneva. Archives des Sciences Physiques et Naturelles,—Tome III, No. 3.

Leipzig. Annalen der Physik und Chemie,—Beiblätter, Band XXI, Stück 3.

London. Numismatic Circular,—Vol. V, No. 53.

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### NOTICE.

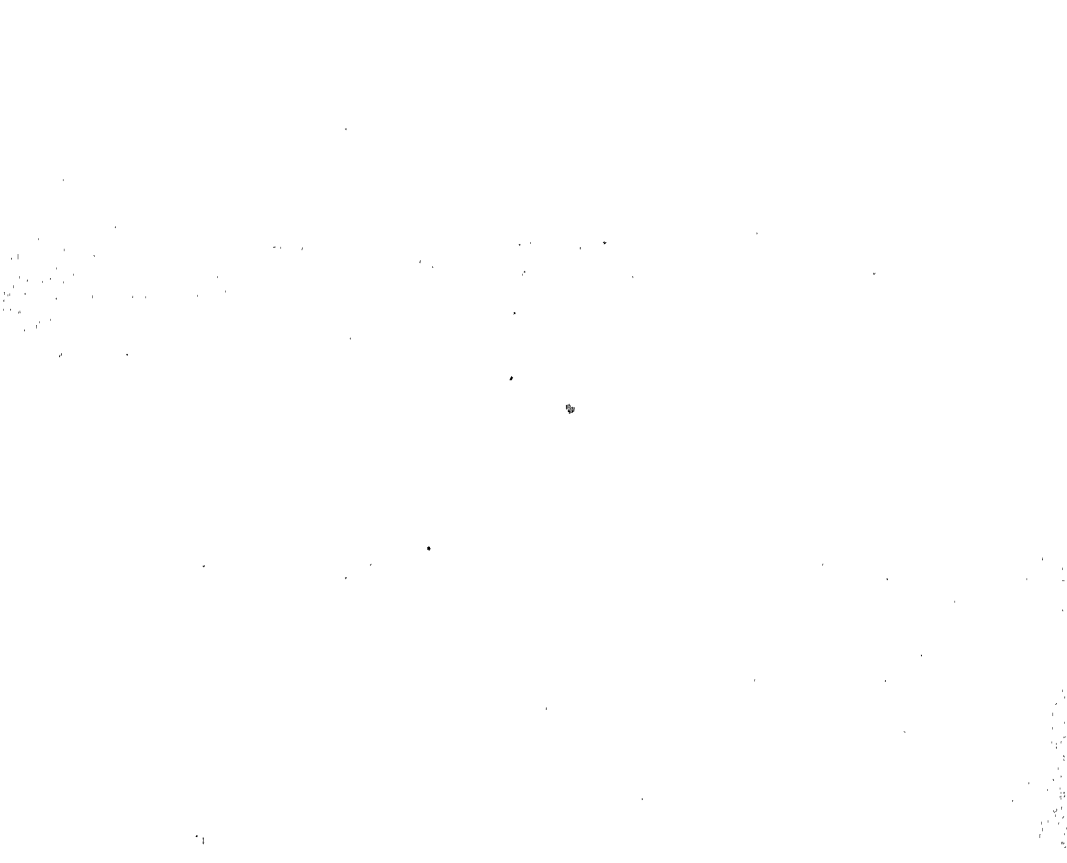
Foreign Societies who favour the Asiatic Society of Bengal with their publications are informed that they may be sent either to the address of the Society at Calcutta, or to the Agents of the Society in London, Messrs. Luzac & Co., 46, Great Russell Street.

### AVIS.

Des Sociétés Etrangères qui honorent la Société Asiatique de Bengale de ses publications, sont priées de les envoyer ou directement à l'adresse de la Société, 57, Park Street, Calcutta, ou aux Agents de la Société à Londres, Messrs. Luzac et Cie, 46, Great Russell Street.

### ANZEIGE.

Ausländische Gesellschaften welche die Asiatische Gesellschaft von Bengalen mit ihren Publicationen beehren, sind hierdurch ersucht dieselben entweder direct an die Adresse der Gesellschaft, 57, Park Street, Calcutta, oder an deren Agenten in London, Messrs. Luzac & Co., 46, Great Russell Street.



PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR JUNE, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 2nd June, 1897, at 9-15 P. M.

F. FINN, Esq., B.A., F.Z.S., in the chair.

The following members were present :—

Dr. A. R. S. Anderson, H. H. Hayden, Esq., Kumār Rāmesçvar Māliāh, L. de Nicéville, Esq., A. T. Pringle, Esq., Dr. G. Watt.

Visitors :—Dr. J. W. Grant, C. Saunders, Esq.

The minutes of the last meeting were read and confirmed.

Forty-eight presentations were announced, details of which are given in the Library List appended.

The following gentleman duly proposed and seconded at the last meeting of the Society was ballotted for and elected an Ordinary Member :—

Bābu Annadāprasād Vasu, M.A.

The following gentlemen are candidates for election at the next meeting :—

Surgeon-Lieutenant J. W. Grant, I. M. S., proposed by Dr. A. R. S. Anderson, seconded by R. D. Oldham, Esq.

E. Vredenburg, Esq., proposed by R. D. Oldham, Esq., seconded by Dr. A. R. S. Anderson.

G. E. Grimes, Esq., proposed by R. D. Oldham, Esq., seconded by Dr. A. R. S. Anderson.

The following papers were read :—

1. *Contributions to the Theory of Warning Colours and Mimicry*, No. IV. *Experiments with various Birds. Summary and Conclusions.*—By F. FINN, B.A., F.Z.S., *Deputy Superintendent of the Indian Museum.*

2. *Noviciæ Indiæ*, XVI. *More additional species of Labiatæ.*—By DR. D. PRAIN.

3. *Description of Neptis praslini, Boisduval and two new species allied to it.*—By LIONEL DE NICÉVILLE, F.E.S., C.M.Z.S.

The papers will be published in the *Journal*, Part II.

### LIBRARY.

The following additions have been made to the Library since the meeting held in May last :—

#### TRANSACTIONS, PROCEEDINGS AND JOURNALS,

*presented by the respective Societies and Editors.*

Baltimore. Johns Hopkins University,—*American Chemical Journal*, Vols. XVII, Nos. 8-10; XVIII, 1-5.

———. *American Journal of Mathematics*,—Vols. XVII, Nos. 4; XVIII, 1 and 2.

———. *American Journal of Philology*,—Vol. XVI, Nos. 2-4.

———. *Historical and Political Science*, XIII<sup>th</sup> Series, Nos. 9-12; XIV<sup>th</sup> 1-5.

Bombay. *The Indian Antiquary*,—January and February, 1897.

Brussels. *Société Entomologique de Belgique*,—*Annales*, Tome XL.

Budapest. *A Magyar Tudományos Akadémia*,—*Ertekezések*, Kötet XVI, Szám VII.

———. *Nyelvtudományi Közlemények*, Kötet XXV, füzet 3-4; XXVI, 1-2.

———. *Die Ungarische Akademie der Wissenschaften*,—*Mathematische und Naturwissenschaftliche Berichte aus Ungarn*, Band XII, Heft 2; XIII, 1.

———. *Ungarische Revue*, Band XV, Heft 5-10.

Buenos Aires. *Museo Nacional de Buenos Aires*,—*Anales*, Tome IV.

Calcutta. *Indian Engineering*,—Vol. XXI, Nos. 19-23.

———. *Indian Lancet*,—Vol. IX, Nos. 10 and 11.

———. *Maha-bodhi Society*,—*Journal*, Vol. VI, No. 1.

———. *Microscopical Society of Calcutta*,—*Bulletin*, Vol. VI, No. 2.

———. *The Wealth of India*,—Vol. I, No. 5.

- Chicago. Field Columbian Museum, — Ornithological Series, Vol. I, No. 1; Zoological Series, Nos. 3-5.
- Colombo. Ceylon Branch of the Royal Asiatic Society, — Journal, Vol. XIV.
- Danzig. Die Naturforschende Gesellschaft in Danzig, — Schriften, Band IX, Heft 1.
- The Hague. Koninklijk Instituut voor de Taal—, Land-en Volkenkunde van Nederlandsch-Indië, — Bijdragen tot de Taal—, Land-en Volkenkunde van Nederlandsch-Indië, 6<sup>e</sup> Volgr, Deel III, Afllevering 2.
- Halifax. Nova Scotian Institute of Science, — Proceedings and Transactions, Vol. IX, Part 1.
- Kiel. Die Naturwissenschaftliche Vereins für Schleswig-Holstein, — Schriften, Band X, Heft 2.
- London. The Academy, — Nos. 1303-6.
- . The Athenæum, — Nos. 3626-29.
- . Geological Society, — Quarterly Journal, Vol. LIII, Part 2; and General Index to the first fifty volumes, Part II, La-Z.
- . Institution of Electrical Engineers, — Journal, Vol. XXVI, No. 128.
- . Nature, — Vol. LV, Nos. 1434-37.
- . Royal Asiatic Society of Great Britain and Ireland, — Journal, Part II, 1897.
- . Royal Geographical Society, — Geographical Journal, Vol. IX, No. 5.
- . Royal Institution of Great Britain, — Proceedings, Vol. XV, No. 1.
- . Zoological Society of London, — Proceedings, Part IV, 1896.
- . Transactions, — Vol. XIV, Part 3.
- Moscow. Société Impériale des Naturalistes de Moscou, — Bulletin, No. 3, 1896.
- Munich. Die K. b. Akademie der Wissenschaften zu München, — Almanach, 1897.
- . Sitzungsberichte, Math.-Phys. Cl. Heft 4, 1896.
- . Phil. u. Hist. Cl. Heft 4, 1896.
- Mussoorie. The Indian Forester, — Vol. XXIII, No. 4.
- New York. American Museum of Natural History, — Annual Report, 1895.
- Philadelphia. Academy of Natural Sciences of Philadelphia, — Journal, 2<sup>nd</sup> Series, Vol. X, Part 4.
- . Proceedings, Part I, 1896.
- . American Philosophical Society, — Proceedings, Vol. XXXV, No. 150.



- Rio de Janeiro. Observatorio do Rio de Janeiro, — Annuario, 1896.
- Rome. Revista Geografica Italiani, — Tome IV, No. 4.
- . Società degli Spettroscopisti Italiani, — Memorie, Tome XXVI, No. 1.
- Sydney. Australasian Anthropological Journal, — Vol. I, No. 5.
- Taiping. Perak Government, — Gazette, Vol X, Nos. 9 and 10.
- Tring. Novitates Zoologicae, — Vol. IV, No. 1.
- Vienna. Die K. K. Geologische Reichsanstalt, — Abhandlungen, Band XVIII, Heft 1.
- . Jahrbuch, Band XLV, Heft 2 und 3.
- Washington. Biological Society of Washington, — Proceedings, Vol. XI, pp. 57-104.
- . Philosophical Society of Washington, — Bulletin, Vol. XII.
- . Smithsonian Institution, — Smithsonian Contributions to Knowledge, Vols. XXX.-XXXII.
- . United States Geological Survey, — Bulletin, Nos. 123-26, 128-29, 131-34.
- Zürich. Die Naturforschende Gesellschaft in Zürich, — Vierteljahrschrift, Heft 1, 1897.

### BOOKS AND PAMPHLETS.

*presented by the Authors, Translators, &c.*

- BLOOMFIELD, MAURICE. Contributions to the Interpretation of the Veda. Seventh series. 8vo. Baltimore, 1896.

### MISCELLANEOUS PRESENTATIONS.

- BLADEN, F. M. Historical Records of New South Wales. Vol. IV. 8vo. Sydney, 1896.
- NEW SOUTH WALES. The mother colony of the Australias. 8vo. Sydney, 1896.
- BOARD FOR INTERNATIONAL EXCHANGES, SYDNEY.
- BANGS, OUTRAM. Notes on the synonymy of the North American Mink with description of a new subspecies. 8vo. Boston, 1896.
- BOSTON SOCIETY OF NATURAL HISTORY.
- Records of the Botanical Survey of India. Vol. I, No. 7. 8vo. Calcutta, 1896.

### BOTANICAL SURVEY OF INDIA.

- BEZOLD, C. Catalogue of the Cuneiform Tablets in the Kouyunjik Collection of the British Museum. Vol. IV. 4to. London, 1896.
- BRITISH MUSEUM, LONDON.

Annual Report of the Library Syndicate of the Cambridge University for the year 1895. 4to. Cambridge, 1896.

CAMBRIDGE UNIVERSITY.

Report of the Carmichael Library, Benares. 1896. 8vo. Benares, 1897.

CARMICHAEL LIBRARY, BENARES.

DAVIS, A. W. Gazetteer of the North Lushai Hills. 8vo. Shillong, 1894.

CHIEF COMMISSIONER, ASSAM.

Returns of the Rail-Borne Traffic of the Central Provinces during the quarter ending 31st December, 1896. Fcp. Nagpur, 1897.

CHIEF COMMISSIONER, CENTRAL PROVINCES.

Results of Meteorological Observations of the G. V. Juggarow Observatory, Vizagapatam. 1894. 8vo. Vizagapatam, 1896.

G. V. JUGGAROW OBSERVATORY, VIZAGAPATAM.

Inaugural—Dissertation zur erlangung der Doctorwürde bei der Philosophischen Facultät der Universität Giessen:—

IPFEN, J. A. Petrographische Untersuchungen an Krystallinen Schiefern der Mittelsteiermark (koralpe stubalpe, Possruck). 8vo. Graz, 1896.

SCHENCK, CARL ALWIN. Die Rentabilität des Deutschen Eichenschälwalds. 8vo. Darmstadt, 1896.

GIESSEN UNIVERSITY.

Returns of the Rail and River-Borne Trade of Bengal during the quarter ending the 31st December, 1896. Fcp. Calcutta, 1897.

GOVERNMENT OF BENGAL.

Progress Report of the Archæological Survey of Western India for the months September, 1895 to April, 1896. Fcp. Poona, 1896.

GOVERNMENT OF BOMBAY.

Copy of further Correspondence between the Secretary of State for India and the Government of India regarding the Leave and Pension Rules of the Civil Officers formerly termed Uncovenanted Servants. Fcp. London, 1896.

The Indian Antiquary for December 1896. 4to. Bombay, 1896.

Return of Reports of Committee appointed to enquire into the sanitary condition of certain Gaols in Bengal. Fcp. London, 1896.

Selections from the Records of the Government of India, Home Department, No. CCCXLII, Vols. I. and II. Fcp. Calcutta, 1897.

CROOKE, W. The Tribes and Castes of the North-Western Provinces and Oudh. Vols. I—IV. 8vo. Calcutta, 1896.

GOVERNMENT OF INDIA, HOME DEPARTMENT.

The Agricultural Ledger, Mineral and Metallic series, Nos. 6 and 7; Veterinary series, No. 25. 8vo. Calcutta, 1896.

Epigraphia Indica for December 1896. 4to. Calcutta, 1897.

GOVERNMENT OF INDIA, REV. AND AGRI. DEPARTMENT.

HULTZSCH, E. Reports on Sanskrit Manuscripts in Southern India.  
No. II. 8vo. Madras, 1896.

GOVERNMENT OF MADRAS.

Annual Report of the Government Agr.-Horticultural Gardens,  
Lahore, for the year ending 31st March, 1896. Fcp. Lahore, 1896.

GOVERNMENT OF THE PUNJAB.

Katalog der Bibliothek der Kaiserlichen Leopoldinisch-Carolinischen  
Deutschen Akademie der Naturforscher. Band II, Heft 3. 8vo.  
Halle, 1895.

KAISERLICHEN LEOPOLDINISCH-CAROLINISCHEN DEUTSCHEN AKADEMIE DER  
NATURFORSCHER, HALLE.

Catalogue of the Michigan Mining School. 1894-96. 8vo. Houghton,  
Mich, U.S.A., 1896.

MICHIGAN MINING SCHOOL, HOUGHTON, MICH, U.S.A.

Annual Report of the Director of the Royal Alfred Observatory for the  
year 1894. Fcp. Mauritius.

Results of Meteorological Observations taken during the year 1895, at  
the Royal Alfred Observatory, Mauritius. Fcp. Mauritius.

ROYAL ALFRED OBSERVATORY, MAURITIUS.

Meteorological Observations of the St. Xavier's College Observatory  
from January to June, 1896. Sheet. Calcutta, 1897.

ST. XAVIER'S COLLEGE OBSERVATORY, CALCUTTA.

MÜLLER, F MAX. Sacred Books of the East. Vol. XXXVIII, XLII,  
XLV, and XLVI. 8vo. Oxford, 1895-97.

SECRETARY OF STATE FOR INDIA IN COUNCIL.

North American Fauna. No. 12. 8vo. Washington, 1896.

UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON.

ATKINSON, EDWIN T. Economic Products of the North-Western Pro-  
vinces. Part I. Gums and Gum-Resins. 8vo. Allahabad, 1876.

Hints to Travellers. Edited by a Committee of Council of the Royal  
Geographical Society, December, 1871. 8vo. London, 1871.

CHARY, C. RAGOONATHA. The Transit of Venus: A discourse. 8vo.  
Madras.

CLARK, W. Tied Arches for Roofs and Floors of Buildings with some  
experience in their construction and uses. 8vo. Calcutta, 1872.

FERGUSSON, JAMES. Description of the Amravati Tope, on the banks  
of the Kistnah in the Guntur Zillah. 8vo. Hertford, 1867.

———, On the study of Indian Architecture. 8vo. London, 1867.

LYMAN, BENJAMIN SMITH. Report on the New Red of Bucks and Mont-  
gomery Counties. 8vo. Pennsylvania, 1895.

COLONEL J. WATERHOUSE.

Catalogue of Yale University for the year 1896-97. 8vo. New  
Heaven, 1896. YALE UNIVERSITY.

PERIODICALS PURCHASED.

- Calcutta. Indian Medical Gazette, — May, 1897.  
Chicago. The Journal of Geology, — Vol. V, No. 13.  
Geneva. Archives des Sciences Physiques et Naturelles, — Vol. III, No. 4.  
Leipzig. Annalen der Physik und Chemie, — Band LX, Heft 4.  
London. Numismatic Circular, — Vol. V, No. 54.  
Vienna. Vienna Oriental Journal, — Vol. X, Nos. 3 and 4.
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PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR JULY, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 7th July, 1897, at 9-15 p. m.

DR. A. F. R. HOERNLE, C.I.E., President, in the chair.

The following members were present :—

Dr. A. R. S. Anderson, Dr. T. Bloch, F. Finn, Esq., Captain W. Haig, L. de Nicéville, Esq., A. T. Pringle, Esq., Paṇḍit Mahēndra Nath Vidyānidhi.

Visitors :—W. K. Dods, Esq., Paul S. Quillet, Esq., C. W. Ellis, Esq.

The minutes of the last meeting were read and confirmed.

Thirty-two presentations were announced, details of which are given in the Library List appended.

The following gentlemen duly proposed and seconded at the last Meeting of the Society were balloted for and elected ordinary Members :—

Surgeon-Lieutenant J. W. Grant, I. M. S.

E. Vredenburg, Esq.

G. E. Grimes, Esq.

The following gentlemen have expressed a wish to withdraw from the Society :—

Bābu Jānaki Nāth Bhaṭṭācērya.

H. C. Mullick, Esq.

The following papers were read :—

1. *Notes on the Vernacular dialects spoken in the District of Saran*,—By GIRINDRA NATH DUTT, Superintendent, Raj Hutwa. Communicated by DR. G. A. GRIERSON.

The paper will be published in the *Journal*, Part I.

2. *Some New Indo-Malayan Orchids*,—By G. KING, M.B., LL.D., F.R.S., C.I.E. and R. PANTLING.

The paper will be published in the *Journal*, Part II.

3. *A Comparative Vocabulary of the Gōndī and Kōlāmī Languages*,—By CAPTAIN WOLSELEY HAIG, Officiating Deputy Commissioner, Wun District, Berar.

The paper will be published in the *Journal*, Part I.

4. *Notes on Some Butterflies from Myingan, Central Burma*,—By CAPTAIN E. Y. WATSON, I.S.C., F.Z.S.

The paper will be published in the *Journal*, Part II.

## LIBRARY.

The following additions have been made to the Library since the meeting held in June last :—

### TRANSACTIONS, PROCEEDINGS AND JOURNALS,

*presented by the respective Societies and Editors.*

- Berlin. Die K. P. Akademie der Wissenschaften zu Berlin,—Sitzungsberichte, Nrn. 1-25, 1897.
- . Berliner Entomologische Zeitschrift,—Band XLI, Heft 4.
- Bombay. Anthropological Society of Bombay,—Journal, Vol. IV, Nos. 3 and 4.
- Boston. American Oriental Society,—Journal, Vol. XIX.
- Calcutta. Indian Engineering,—Vol. XXI, Nos. 24-26.
- . The Indian Lancet,—Vol. IX, No. 12.
- Genoa. Museo Civico de Storia Naturale de Genova,—Annali, 2<sup>a</sup> Serie, Tome XVII.
- Hamburg. Naturwissenschaftlichen Vereins in Hamburg,—Abhandlungen aus dem Gebiete der Naturwissenschaften, Band XV.
- . Verhandlungen, Band III, Heft 4.
- Havre. Société de Géographie Commerciale du Havre,—Bulletin, No. 1, 1897.
- Leipzig. Die Deutsche Morgenlandische Gesellschaft,—Zeitschrift, Band LI, Heft 1.

- London. The Academy,—Nos. 1307-10.  
 ———. Anthropological Institute of Great Britain and Ireland,—  
 Journal, Vol. XXVI, No. 4, and List of the Fellows, May, 1897.  
 ———. The Athenæum,—Nos. 3630-33.  
 ———. Nature,—Vol. LVI, Nos. 1438-41.  
 ———. Royal Astronomical Society,—Monthly Notices, Vol. LVII,  
 No. 6.  
 ———. Zoological Society of London,—Proceedings, Part I, 1897.  
 Manchester. Manchester Literary and Philosophical Society,—Memoirs  
 and Proceedings, Vol. XLI, Part 3.  
 Rome. Società degli Spettroscopisti Italiani,—Memorie, Tome XXVI,  
 No. 2.  
 St. Petersburg. L'Académie Impériale des Sciences de St. Péters-  
 bourg,—Annuaire du Musée Zoologique, 1897.  
 Sydney. Linnean Society of New South Wales,—Proceedings, Part 4,  
 1896.  
 Taiping. Perak Government,—Gazette, Vol. X, No. 11.  
 Toronto. Canadian Institute,—Proceedings, Vol. I, Part 1.  
 ———. ———. Transactions, Vol. V, Part 1.  
 Vienna. Die K. K. Zoologisch-botanische Gesellschaft in Wien,—  
 Verhandlungen, Band XLVII, Heft 3.  
 Washington. Biological Society of Washington,—Proceedings, Vol.  
 XI, pp. 105-43.  
 Yokohama. Asiatic Society of Japan,—Transactions, Vol. XXIV.

### BOOKS AND PAMPHLETS,

*presented by the Authors, Translators, &c.*

- CASSINO, SAMUEL E. The Scientists' International Directory, 1896. 8vo.  
 Boston, 1896.

### MISCELLANEOUS PRESENTATIONS.

- GEROULD, JOHN HIRAM. The Anatomy and Histology of *Caudina*  
*Arenata* Gould. 8vo. Boston, 1896.

BOSTON SOCIETY OF NATURAL HISTORY.

- NEEDHAM, F. J. A collection of a few Moshang Naga Words. 8vo.  
 Shillong, 1897.

CHIEF COMMISSIONER, ASSAM.

- Annual Report on the Lunatic Asylums in the Central Provinces for  
 the year 1896. Fcp. Allahabad, 1897.

CHIEF COMMISSIONER, CENTRAL PROVINCES.

- Annual Report on the Police Administration of the Town of Calcutta  
 and its Suburbs for the year 1896. Fcp. Calcutta, 1897.



Administration Report on the Jails of Bengal for the year 1896. Fcp. Calcutta, 1897.

GOVERNMENT OF BENGAL.

Army Estimates of effective and non-effective services for 1897-98. Fcp. London, 1897.

Papers regarding the Famine and the Relief Operations in India, during the year 1896, with copy of the Famine Code for the North-West Provinces and Oudh. Fcp. London, 1897.

Return of all Loans raised in England under the Provisions of any Acts of Parliament, chargeable on the Revenues of India, outstanding at the Commencement of the Half-year ended on the 30th September, 1896. Fcp. London, 1897.

Returns of all Loans raised in India, chargeable on the Revenues of India, outstanding at the Commencement of the Half-year ended on the 30th September, 1896. Fcp. London, 1897.

Copy of Correspondence between the Secretary of State for India and the Lords Commissioners of Her Majesty's Treasury, regarding the Superannuation Allowance of Major-General Sir Owen Tudor Burne. Fcp. London, 1897.

GOVERNMENT OF INDIA, HOME DEPARTMENT.

SMITH, V. A. The Remains near Kasia, in the Gorakhpur District. 4to. Allahabad, 1896.

GOVERNMENT OF NORTH-WESTERN PROVINCES.

BASE, DANIEL. Some Double Halides of Zinc. 8vo. Easton, Pa. 1895.

BROMWELL, WILLIAM. A Study of the Nitrate and Sulphate of Orthodiazotoluene and the Action of the Sulphate on Methyl Alcohol. 8vo. Easton, Pa. 1895.

GORRELL, JOSEPH HENDREN. Indirect Discourse in Anglo-Saxon. 8vo. Baltimore, 1895.

GRAY, GEORGE WILLIAM. The Chlorides of Paranitroorthosulphobenzoic Acid. 8vo. Easton, Pa. 1895.

GREY, W. R. The Treatment of Philosophy and Philosophers by the Greek Comic Poets. 8vo. Baltimore, 1896.

HARRISON, ROSS GRANVILLE. The Development of the Median and Paired Fins of Teleosts. 8vo. Baltimore, 1895.

HAYNES, JOHN. Risk as an Economic Factor. 8vo. Boston, 1895.

HOUGH, THEODORE. On the Escape of the Heart from Vagus Inhibition. 8vo. Baltimore, 1895.

HUNT, REID. The Fall of Blood-Pressure resulting from the Stimulation of Afferent Nerves. 8vo. Baltimore, 1895.

HUNTER, JOSEPH RUFUS. The Relation of the Anilides of Orthosulphobenzoic Acid. 8vo. Easton, Pa. 1895.

- KEIDEL, GEORGE C. *The Evangile aux Femmes*, an old-French satire on Women. 8vo. Baltimore, 1895.
- MALTBIE, WILLIAM H. On the Curve  $y^m - G(x) = 0$ , and its Associated Abelian Integrals. 4to. Baltimore, 1894.
- MARDEN, CHARLES CARROLL. *The Phonology of the Spanish Dialect of Mexico City*. 8vo. Baltimore, 1896.
- McKEE, SOL. REID. A further investigation of the chlorides of ortho-sulphobenzoic Acid. 8vo. Easton, Pa. 1895.
- MOORE, H. L. *Von Thünen's Theory of Natural Wages*. 8vo. Boston, 1895.
- MOORE, L. T. On the changes in length produced in iron wires by Magnetization. 4to. Baltimore, 1895.
- MUCKENFUSS, ANTHONY MAULTRIE. *Some Transformations of Parasulphaminebenzoic Acid*. 8vo. Easton, Pa. 1895.
- SHIELDS, T. E. The effect of odours irritant vapours, and mental work upon the Blood flow. 4to. Baltimore, 1896.

JOHNS HOPKINS UNIVERSITY, BALTIMORE.

Monthly Weather Review for December, 1896. 4to. Calcutta, 1897.

METEOROLOGICAL REPORTER, GOVERNMENT OF INDIA.

SHERBORN, CHARLES DAVIES. An Index to the genera and species of the Foraminifera. Part II. Non. to Z. 8vo. Washington, 1896.

SMITHSONIAN INSTITUTION.

### PERIODICALS PURCHASED.

- Calcutta. *Indian Medical Gazette*,—Vol. XXXII, No. 6.
- Geneva. *Archives des Sciences Physiques et Naturelles*,—Tome II, No. 5.
- Leipzig. *Annalen der Physik und Chemie*,—Band LXI, Heft 1.
- . *Beiblätter*, Band XXI, Stück 4 und 5.
- London. *Numismatic Circular*,—Vol. V, No. 55.
- Vienna. *Vienna Oriental Journal*,—Vol. XI, No. 1.

### BOOKS PURCHASED.

- BUDGE, E. A. WALLIS. *Laughable stories collected by Mär Gregory John Bar-Hebræus*. 8vo. London, 1897.
- SIMPSON, WILLIAM. *The Buddhist Praying Wheel*. 8vo. London, 1896.
- SINH SIR BHAGVAT. *A short History of Aryan Medical Science*. 8vo. London, 1896.



PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR AUGUST, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 4th August, 1897, at 9-15 P.M.

DR. A. F. R. HOERNLE, C.I.E., President, in the chair.

The following members were present:—

Dr. A. R. S. Anderson, Dr. T. Bloch, W. B. Colville, Esq., Dr. J. W. Grant, The Rev. H. B. Hyde, L. de Nicéville, Esq., R. D. Oldham, Esq., A. T. Pringle, Esq., Paṇḍit Haraprasād Cāstrī, Paṇḍit Mahendra Nāth Vidyānidhi.

The minutes of the last meeting were read and confirmed.

Sixty-two presentations, were announced, details of which are given in the Library List appended.

The following gentleman is a candidate for election at the next meeting:—

Charles Saunders, Esq., proposed by L. de Nicéville, Esq., seconded by Dr. T. Bloch.

The PRESIDENT laid on the table the following draft rules on the subject of the award of the Barclay Memorial Medal:

RULES.

1. The Barclay Memorial Medal will be awarded each third year at the Anniversary Meeting of the Asiatic Society of Bengal held on the first Wednesday of February.

2. The Medal will be bestowed on that individual who, not having been a recipient of the Medal during the preceding seven years, shall be deemed by the Council of the Asiatic Society to have, up to the 31st of December next preceding the award, made the most meritorious contribution to Biology with special reference to India.

3. The Council will, at the Meeting next preceding the General Meeting in November of each year, appoint a special committee of five members of the Society who shall include the Natural History Secretary to the Society for the time being; the other four members shall, as far as is possible, consist of individuals who are not, at the time of appointment, members of Council of the Society.

4. This Special Committee shall be termed the "Barclay Memorial Medal Committee," and the Natural History Secretary of the Society, its only *ex-officio* member, shall be its convener and Chairman. The members nominated by the Council to serve on this Committee shall be persons known to be learned in different branches of Biology. Three members of the Committee shall form a quorum.

5. The Chairman of the Committee will call a Meeting of the Committee on the first convenient date subsequent to the first Wednesday of December and will deliver to the Committee the instructions of the Council. These instructions shall be :—

(a) To assist the Council in awarding the Barclay Medal by selecting from among those known or supposed by the Committee to be eligible, the names of at least three persons, but not more than five, worthy, in the Committee's opinion, of the honour.

(b) Members of the Committee, and Members of the Council of the Asiatic Society for the time being, shall be held ineligible for nomination.

(c) The names need not be those of individuals living, at the time of recommendation, in India; and they may be the names of workers in any branch of Biology; *i.e.*, in Animal or Vegetable Morphology, Physiology, including Bionomics, or Taxonomy, and taxonomic work shall be held to include Palæontology.

(d) The names selected by the Committee in any year should, as far as is possible, be names of persons eminent in different branches of Biology.

6. In the event of all five members being unable to attend the first meeting of the Committee convened by the *ex-officio* Chairman, that gentleman is empowered to communicate, or to depute one of the other members present at the meeting to communicate by letter with the

absent member or members with reference to the subject under consideration, and with the request that any reply to such communication be addressed, under a sealed and registered cover marked "confidential," to the Natural History Secretary, Asiatic Society of Bengal, 57, Park Street, Calcutta.

7. Having received the instructions of the Council the Committee will fix a date for a second meeting to be held on the first convenient day subsequent to the first Wednesday of January, but before the Thursday preceding the first Wednesday of February. In any communication addressed to an absent member of the Committee, the date of this second meeting will be announced.

8. At this second meeting of the Committee the Chairman will read to the other members present any communications received from members unable to be present, and the Committee will finally decide on the names to be submitted to the Council; in each case a brief statement of the meritorious work on which the recommendation is based will be appended.

9. The names recommended, together with these notes, will be placed in a sealed cover to be left in the custody of the Chairman of the Committee, in order that it may be handed by him to the President of the Society or such other officer as may act as Chairman at the Meeting of Council of the Asiatic Society, held on the Thursday preceding the Anniversary Meeting of the Society.

10. At the Council Meeting held on the Thursday preceding the Anniversary Meeting, the Members of Council present will select from among the names recommended by the Barclay Medal Committee, the name that it considers most worthy of the Medal.

The PRESIDENT announced that Dr. T. Bloch, had been appointed Philological Secretary of the Society in the place of Dr. G. Ranking, resigned.

Mr. R. D. Oldham, Officiating Director of the Geological Survey of India, exhibited and described an important collection of rude stone implements from Central India.

The following papers were read:—

1. *Three further collections of ancient manuscripts from Central Asia.*—By A. F. RUDOLF HOERNLE, PH.D., C.I.E.

The paper will be published in the *Journal*, Part I.

2. *On new or little-known Butterflies from the Indo and Austro-Malayan Region.*—By LIONEL DE NICÉVILLE, F. E. S., C.M.Z.S.

The paper will be published in the *Journal*, Part II.

## LIBRARY.

The following additions have been made to the Library since the meeting held in July last:—

## TRANSACTIONS, PROCEEDINGS AND JOURNALS,

*presented by the respective Societies and Editors.*

- Baltimore. Johns Hopkins University,—Circulars, Vol. XVI, Nos. 129-31.
- Batavia. Bataviaasch Genootschap van Kunsten en Wetenschappen,—*Tijdschrift voor Indische Taal-, Land-en Volkenkunde*, Deel XXXIX, Aflevering 6.
- . Koninklijke Natuurkundige Vereeniging in Nederl.-Indië,—*Natuurkundig Tijdschrift voor Nederlandsch-Indië*, Deel LVI.
- Berlin. Die Königlische Akademie der Wissenschaften zu Berlin,—*Abhandlungen*, 1896.
- Bombay. Bombay Natural History Society,—*Journal*, Vols. X, Nos. 5; XI, 1.
- . *The Indian Antiquary*,—Vol. XXVI, Part 323.
- Bordeaux. La Société Linnéenne de Bordeaux,—*Actes* Tome XLIX.
- Brussels. La Société Entomologique de Belgique,—*Annales*, Tome XXXIX.
- Budapest. A Magyar Tudományos Akadémia,—*Ertekezések*, Kötet XVI, Szám 6.
- Caen. La Société Linnéenne de Normandie,—*Bulletin*, 4<sup>e</sup> Série, Tome IX, Nos. 2 et 3; X, 1 et 2.
- Calcutta. Buddhist Text Society of India,—*Journal*, Vol. IV, Parts 3 and 4.
- . Geological Survey of India,—*Records*, Vol. XXX, Part 2.
- . Indian Engineering,—Vol. XXII, Nos. 1-5.
- . The Indian Lancet,—Vol. X, Nos. 1-3.
- . Maha-bodhi Society,—*Journal*, Vol. VI, No. 2.
- . Microscopical Society of Calcutta,—*Bulletin*, Vol. VI, No. 3.
- . Photographic Society of India,—*Journal*, Vol. X, Nos. 6 and 7.
- . The Wealth of India,—Vol. I, No. 6.
- Dublin. Royal Irish Academy,—*Proceedings*, 3rd Series, Vol. IV, No. 1.
- The Hague. Nederlandsche Entomologische Vereeniging,—*Tijdschrift voor Entomologie*, Band XL, Nr. 1.
- Leipzig. Die Königlich Sächsische Gesellschaft der Wissenschaften zu Leipzig,—*Berichte über die Verhandlungen*, Math.-Phys. Classe, I-II, 1897.

- Liege. La Société Géologique de Belgique,—Annales, Tome XXIV, No. 1.
- London. The Academy,—New Series, Nos. 1311-15.
- . The Athenaeum,—Nos. 3634-38.
- . Institution of Electrical Engineers,—Journal, Vol. XXVI, No. 129.
- . Institution of Mechanical Engineers,—Proceedings, No. 2, 1896.
- . Nature,—Vol. LVI, Nos. 1442-46.
- . Royal Astronomical Society,—Monthly Notices, Vol. LVII, No. 7.
- . Royal Geographical Society,—Geographical Journal, Vol. X, No. 1.
- . Royal Microscopical Society,—Journal, Parts 6, 1896; 1, 1897.
- . Royal Society,—Proceedings, Vol. LXI, Nos. 365, 366 and 369.
- . Royal Statistical Society,—Journal, Vol. LX, Part 1.
- Lyon. La Société d'Anthropologie de Lyon,—Bulletin, Tome XIV.
- Madras. The Indian Journal of Education,—May 1897.
- Montevideo. Museo Nacional de Montevideo,—Anales, VI.
- Mussoorie. The Indian Forester,—Vol. XXIII, Nos. 5 and 6; and Appendix Series, Part I.
- Nantes. La Société des Sciences Naturelles de l'ouest de la France,—Bulletin, Tome V, Nos. 4; VI, 1 et 3.
- Paris. L'Académie Nationale des Sciences, Belles-Lettres et Arts de Bordeaux,—Actes, 3<sup>e</sup> Série, Tome LV.
- . La Société d'Anthropologie de Paris,—Bulletins, 4<sup>e</sup> Série, Tome VII, Nos. 2-5.
- . Muséum d'Histoire Naturelle,—Bulletin, Nos. 2-4 et 7, 1896.
- . Nouvelles Archives, 3<sup>e</sup> Série, Tome VII; VIII, Nos. 1 et 2.
- . Musée Guimet,—Annales, Tome XXVII.
- . Bibliothèque d'Études,—Tome III.
- . Revue de l'Histoire des Religions, Tome XXXII, Nos. 2 et 3; XXXIII, 1 et 2.
- . Société de Géographie,—Comptes Rendus des Séances, Nos. 8-12, 1897.
- . La Société Philomathique de Paris,—Bulletin, 8<sup>e</sup> Série, Tome VIII, Nos. 2-4.
- . La Société Zoologique de France,—Bulletin, Tome XXI.
- Pisa. La Società Toscana di Scienze Naturali,—Atti, Memorie, Tome XV.
- . Processi Verbali, 14 Marzo—9 Maggio, 1897.



- Philadelphia. American Academy of Political and Social Science,—Annals, Vol. X, No. 1.
- Prague. Die K. K. Sternwarte zu Prag,—Magnetische und Meteorologische Beobachtungen, 1896.
- Rome. Rivista Geografica Italiani,—Annata IV, Fasc V-VI.
- . Società degli Spettroscopisti Italiani,—Memorie, Tome XXVI, Nos. 3 et 4.
- St. Petersburg. L'Académie Impériale des Sciences de St. Petersburg,—Bulletin, V<sup>e</sup> Série, Tome VI, No. 3.
- . ———. Mémoires, Classe Historico-Philologique, VIII<sup>e</sup> Série, Tome I, Nos. 1-2; Classe Physico-Mathématique, VIII<sup>e</sup> Série, Tome I, 9; II, 1-9; III, 1-6; IV, 1.
- Simla. Indian Meteorological Memoirs,—Vol. VII, Part 7.
- Stettin. Stettiner Entomologische Zeitung,—Nrn. 1-12, 1896.
- Sydney. The Australasian Anthropological Journal,—Vol. I, No. 6.
- Taiping. Perak Government,—Gazette, Vol. X, Nos. 12-18.
- Turin. La R. Accademia della Scienze di Torino,—Atti, Tome XXXII, Nos. 7-12.
- Vienna. Die Anthropologische Gesellschaft in Wien,—Mittheilungen, Band XXVII, Heft 2.
- . Die K. K. Geologische Reichsanstalt,—Verhandlungen, Nrn. 6-8, 1897.
- . Die K. K. Zoologisch-botanische Gesellschaft in Wien,—Verhandlungen, Band XLVII, Heft 4.
- Washington. Biological Society of Washington,—Proceedings, Vol. XI, pp. 145-212.
- Wellington. Polynesian Society,—Journal, Vol. VI, No. 2.
- Yokohama. Die Deutsche Gesellschaft für Natur-und Völkerkunde Ostasiens in Tokio,—Mittheilungen, 59<sup>tes</sup> Heft.

### BOOKS AND PAMPHLETS,

*presented by the Authors, Translators, &c.*

- BASTIAN, ADOLF. Festschrift für Adolf Bastian zu seinem 70. Geburtstage 26. Juni 1896. 8vo. Berlin, 1896.
- DHARMAPALA, H. The kinship between Hinduism and Buddhism by Henry S. Olcott. 8vo. Calcutta, 1893.
- GODWIN-AUSTEN, LT.-COL. H. H. Notes on the Genus Euplecta. 8vo. Hertford, 1897.
- KILIAAN, H. N. Madoereesche Spraakkunst. 8vo. Batavia, 1897.
- MANOUVRIER, L. Sur Le Nain Auguste Tuillon et sur Le Nanisme simple avec ou sans microcephalie. 8vo. Paris, 1896.

MANOUVRIER, L. Observation d'un microcephale vivant et de la cause probable de sa monstruosité. 8vo. Paris, 1895.

———. Deuxieme Etude sur le Pithecanthropus Erectus comme précurseur présumé de l'homme. 8vo. Paris, 1895.

———. Reponse Aux Objections contre le Pithecanthropus. 8vo. Paris, 1897.

MORSE, EDWARD S. Korean Interviews. 8vo. 1897.

SARASIN, PAUL and FRITZ. Ergebnisse Naturwissenschaftlicher Forschungen auf Ceylon in den Jahren 1884-1886. Text, Band III. and Atlas. 4to. Wiesbaden, 1893.

### MISCELLANEOUS PRESENTATIONS.

Notes on the Annual Statements of the Government Charitable Dispensaries in the Central Provinces for the year 1896. Fcp. Allahabad, 1897.

Report on the Jails of the Central Provinces for the year 1896. Fcp. Allahabad, 1897.

Returns of the Rail-Borne Traffic of the Central Provinces during the quarter ending 31st March, 1897. Fcp. Nagpur, 1897.

CHIEF COMMISSIONER, CENTRAL PROVINCES.

Queensland Agricultural Journal, Vol. 1, Pt. I. 8vo. Brisbane, 1897.

DEPARTMENT OF AGRICULTURE, BRISBANE.

EHMANN, P. Sprichwörter und Bildliche Ausdrücke der Japanischen Sprache. 8vo. Tokyo, 1897.

DEUTSCHE GESELLSCHAFT FÜR NATUR-UND VÖLKERKUNDE OSTASIENS,  
YOKOHAMA.

Annual Report on Emigration from the Port of Calcutta to British and Foreign Colonies, 1896. Fcp. Calcutta, 1897.

Annual Report on the Lunatic Asylums of Bengal for the year 1896. Fcp. Calcutta, 1897.

Report on the Legal Affairs of the Bengal Government for the year 1896-97. Fcp. Calcutta, 1897.

GOVERNMENT OF BENGAL.

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C. R. WILSON, Esq.

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PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR NOVEMBER, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal, was held on Wednesday, the 3rd November, 1897, at 9 P.M.

DR. A. F. R. HOERNLE, C.I.E., President, in the chair.

The following members were present:—

Dr. A. Alcock, Dr. T. Bloch, W. B. Colville, Esq., The Most Revd. Archbishop P. Goethals, T. H. Holland, Esq., The Rev. H. B. Hyde, C. Little, Esq., L. de Nicéville, Esq., A. T. Pringle, Esq., C. Saunders, Esq., Pandit Mahendra Nāth Vidyānidhi.

The minutes of the last meeting were read and confirmed.

One Hundred and Twenty-seven presentations were announced, details of which are given in the Library List appended.

The SECRETARY reported that the following gentlemen had been elected Ordinary Members of the Society during the recess in accordance with Rule 7.

Charles Saunders, Esq.

Bābu Sārādā Charaṇ Mitra.

The following gentlemen are candidates for election at the next meeting:—

Captain Stuart H. Godfrey, Assistant Resident in Kashmir, proposed by Dr. A. F. R. Hoernle, seconded by C. Little, Esq.

Mesrobian S. Seth, Esq., Armenian Examiner to the University of Calcutta, proposed by Dr. T. Bloch, seconded by Dr. A. R. S. Anderson.

W. A. Talbot, Esq., Deputy Conservator of Forests, Dharwar, Kanara, Bombay Presidency, proposed by L. de Nicéville, Esq., seconded by Dr. A. F. R. Hoernle.

The following gentlemen have expressed a wish to withdraw from the Society :—

C. H. Bompas, Esq.

Mahārāja Sūryakānta Ācārya Bāhādur.

The SECRETARY reported the death of the following member :—

W. C. Taylor, Esq.

The PRESIDENT announced that the Council had elected Mr. L. de Nicéville to officiate as Natural History Secretary of the Society during Mr. Finn's temporary absence.

The PRESIDENT also announced that Dr. Anderson had left Calcutta and Dr. Alcock had agreed to carry on the duties of the General Secretary till Mr. Wilson's return.

The PRESIDENT laid on the table the following brief account of the Proceedings of the International Congress of Orientalists held at Paris in last September submitted by Dr. Grierson as a delegate of the Society.

From

G. A. GRIERSON, Esq., C.I.E., Ph.D., I.C.S.,

To

THE HONORARY SECRETARY, ASIATIC SOCIETY OF BENGAL,  
*Calcutta.*

ON BOARD S.S. "SHANNON,"

13th October, 1897.

SIR,

With reference to your letter in which you did me the honour of informing me that I had been appointed to act as Delegate of the Asiatic Society of Bengal at the Oriental Congress held at Paris in last September, I have the honour to report that I attended the Congress in that capacity, and also as Delegate of the Government of India, and to give the following brief account of the proceedings, so far as they more immediately concerned India and the Asiatic Society.

2. The Congress was formally opened on Monday, the 6th September, 1897, at a meeting held at the Lycée Louis-le-Grand at 9-30 A.M., under the presidency of the Ministre de l'Instruction et des Beaux-Arts. The Inaugural Address was delivered by M. Schefer, the President of the Congress. It has been printed, and I have the honour to submit herewith a copy. This was followed by an address of welcome delivered by the President of the Municipal Council of Paris, and by several short speeches of various delegates of Governments and Learned Societies. The meeting then adjourned to allow the different members to form themselves into sections. The following sections were constituted:—

- I. Languages and Archæology of Aryan Countries.
  - (a) Languages and Archæology of India.
  - (b) Iran.
  - (c) Linguistics.
- II. Languages and Archæology of the Far East.
  - (a) China and Japan.
  - (b) Indo-China, Malay, and Polynesia.
- III. Musalman Languages and Archæology.
- IV. Semitic Languages and Archæology.
  - (a) Aramaic, Hebrew, Phœnician, and Ethiopic.
  - (b) Assyria.
- V. Egypt, and African Languages.
- VI. The East, Greece.—Relations of Hellenism with the East,—Byzantium.
- VII. Ethnography, Folklore of the East.

3. I joined Section I (a). Languages and Archæology of India. My report will therefore deal principally with that Section. The following gentlemen were appointed the officials of the section:—

*President*: Lord Reay.

*Vice-Presidents*: Hofrath G. Buehler, Professor Pischel, and Professor Kern.

*Secretaries*: Dr. Formichi, Messrs. Stickney, and Grosset.

4. The following is a summary of the proceedings of the Section:—  
Monday, 6th September, Afternoon.

Professor H. Oldenberg, of Kiel, read a paper on Taine's Essay on Buddhism. He pointed out that this essay, which hitherto had been almost unknown was full of suggestion to those who were working now-a-days under more favourable conditions. Professor Rhys Davids, Dr. Buehler, M. Senart, and Lord Reay joined in the discussion which followed, and congratulated Dr. Oldenberg on his discovery of the forgotten Essay.



M. Sylvain Lévi, on behalf of M. Barth, laid on the table an important index prepared by Mr. Bloomfield of Bergaigne's well-known "Religion Vedique."

M. Ballin read a communication on the two veterinary treatises of Jayadatta and Nakula.

M. Speyer read a paper on Gambling in Ancient India.

Tuesday, 7th September, Morning.

Mr. R. Sewell read a paper entitled "Some points in the Archæology of Southern India," in which he summed up the progress made in Archæological researches during past years, and indicated the directions in which research could most usefully be made in future. In a second communication he drew attention to the importance of Ancient Tamil Literature, and informed the meeting that Dr. Pope had prepared annotated translations of the "Pura Nannurru" or "Four hundred War-Poems" and of the "Pura Porul Venba," which is a summary of the former, about two hundred years more modern. Want of funds had hitherto prevented the University of Oxford from publishing this important work. The section resolved that it was most desirable that Dr. Pope's interesting work should be published at an early date.

M. Geiger read an interesting account of the Veddas of Ceylon and their language. A discussion followed, in which Messrs. Wickremasingha, Pischel, Ludwig, Rhys Davids, and Lord Reay took part.

Count Pullé described an ancient map of India, and urged the importance of the proposal made by M. Lévi at the Geneva Congress for the preparation of a Chartography of India. Messrs. Lévi, Buehler, and Count de Gubernatis addressed the section on the subject. The following resolution was then agreed to:—

"Que le Congrès des Orientalistes de 1897 adresse aux Sociétés de Géographie des différents pays, et à l'India Office la demande d'entreprendre le classement chronologique et la publication des cartes, qui, à différentes époques, ont été tracées sur les différents pays d'Orient."

Afternoon.

M. Grosset laid on the table a copy of the first volume of his critical edition of the *Bhāratiya-nāṭya-cāstra* and gave a full account of the whole of this important work.

Prof. Hardy read a paper on the Legend of Kujjutarā and

Sāmavātī in Buddhaghōṣa's *Maṇōrathapūraṇī*. I was unfortunately not present when the paper was read. The *Times* report of the Congress says that he discussed various Indian parallels to the story which forms the principal incident in one of Schiller's legends. Professors Ludwig, Kuhn, and Leumann gave yet other instances of the clever way in which the legends make the heroine save the life of her lover who is himself carrying the letter which seems so innocent while it is really his death-warrant.

Wednesday, 8th September, Morning.

After some remarks of Dr. Buehler on MSS. of the *Jaiminiya Gṛhya-sūtra*, and *Ṛgveda-sūtra*, which had been lately discovered by Dr. Hultsch, and which were now deposited at Vienna, Dr. Waddell exhibited his fine collection of photographs of the newly excavated Græco-Buddhist Sculptures from the Swāt valley (*Udyāna*), and read a paper on the subject. After some discussion, it was resolved to draw up a resolution urging upon the Government of India the importance of carrying on its researches into the antiquities of India. This resolution was drafted by a small sub-committee, and was passed at the next day's meeting. It will be recorded in due course.

M. Cimmino read a paper on the Indian Theatre in Europe. He was followed by Dr. Winternitz who described the MSS. of the *Mahābhārata* in the Whish collection of the R.A.S. Some of the Southern MSS. showed remarkable variations from the hitherto accepted text. In the discussion which followed it was resolved that a critical edition of the great Epic should be undertaken in Europe, and that arrangements should be made for that purpose. Dr. Winternitz also laid on the table his edition of the "*Mantrapāṭha* or the prayer-book of the *Āpastambins*,—Pt. I."

Afternoon.

Count de Gubernatis made a short communication regarding "*The God Brahman and the Goddess Sāvitrī*." He was followed by M. Formichi on "*The God Brhaspati in the Ṛg-Vēda*," who in his turn was succeeded by Professor Kirste on *Inversion in the Direction of Writing*.

M. Foucher, who was at the time travelling in India, had sent to the Congress a paper entitled "*The Itinerary of Hiuen-Tsiang in Gandhāra*." The paper being a long one had been entrusted to M. Finot for the preparation of an abstract. This

had now been done, and the abstract was laid before the meeting. In the discussion which followed, such competent authorities as Dr. Stein and Dr. Buehler took a part.

A paper by Mr. Baynes on "La Conception de la Voie ou du Chemin dans le Mysticisme oriental," was next laid upon the table, and the day's sitting concluded with a long and interesting paper by Mr. Macauliffe on "The Religion and Sacred Books of the Sikhs."

Thursday, September, 9th, Morning.

The Sitting opened with an important notice by M. Senart of an ancient birch-bark MS. containing a portion of the Dhammapada written in the Kharoṣṭhī character. It was discovered in Central Asia by Dutreuil de Rhins, and he proposed that it should be named after that intrepid explorer who had since succumbed a victim to his devotion to science. The MS. consisted merely of fragments, but there was sufficient to show that it was a recension of the Dhammapada differing somewhat from the version at present current. The language was a Pāli, but was more nearly allied to the Pāli of the Aṣṭka Inscriptions than to that of the classical books, and exactly agreed with no known variety of Pāli.

M. Senart was succeeded by Professor S. von Oldenburg, who described fragments of the same MS. which had arrived simultaneously at St. Petersburg. There was no doubt that the Paris and the St. Petersburg fragments both belonged to the same book. The character and language are the same, and both are fragments of the Dhammapada. The greatest interest was shown in the subject by the scholars present, and photographic facsimiles of this, the most ancient Indian MS. known to exist, were exhibited and distributed.

Professor Deussen next laid upon the table a copy of his latest work, "Sechzig Upanishads des Veda," translated, with Introduction and Notes. He drew the attention of the members present to the importance of the ideas contained in these old philosophical treatises, and added some remarks as to the results at which he had arrived in studying the chronological order of the texts of the different *upaniṣads*.

The session concluded with a paper by Mr. G. Oppert "On the Bharatas."

He concluded that the Bharatas mentioned in the Ṛg-Vēda were not the same people as the Tritsus, but were rather a tribe of warriors of non-Aryan origin.

## Afternoon.

The sub-committee appointed to draft the resolutions regarding exploration in India submitted its recommendations. The resolutions were adopted unanimously. As they are long, I cannot do better than quote the excellent abstract given in the "Athenaeum."

1. Thanks to the Government of India and to Sir C. Elliott, Lieutenant-Governor of Bengal, "present at the Congress," for measures already taken for preservation of art treasures in the Swāt Valley and neighbourhood, with an urgent request for further precautions against irresponsible private collectors.
2. Recognition of the eminent services to archæology of Major Deane in this region.
3. The establishment of an international society, with head quarters in London, for the furtherance of Archæological explorations, to be called the "India Exploration Fund," with a provisional committee consisting of Lord Reay, Sir A. Lyall, M. Senart (France), Hofrath Buehler (Austria), Professor Pischel (Germany), Professor von Oldenburg (Russia), and Count Pullé (Italy).
- 4 & 5. Thanks to the Government of India and to that of Nepal for help in the recent discoveries in the Tarai of the traditional birthplace of Buddha.
6. Thanks to the Government of Bengal, especially to Sir C. Elliott, Lieutenant-Governor, for the recently established "Asoka Gallery" in the Indian Museum, in which casts of the oldest inscriptions are collected, and copies made available for other institutions.

The meeting broke up after passing a vote of regret at the absence of Professors Weber, Ascoli, Cowell, and Fausbøll.

## Friday, 10th September, Morning.

Professor Bendall laid on the table a copy of his edition of the *Çikṣāsamuccaya*. This forms the first volume of a new series of works dealing with Buddhism, entitled the "Bibliotheca Buddhica," and published at the expense of the Imperial Academy of Sciences at St. Petersburg. The Section begged Professor S. von Oldenburg to convey to the Academy its thanks for the light which it is throwing on Buddhist Literature by the publication of this important Series.

M. Aymonier read a paper on the King Yaçōvarman of Cambodia. In the discussion which followed, Professor Pischel, Dr. Buehler, and M. Senart drew attention to the interest which

attached to the inscriptions which had been discovered at Cambodia, and to the fresh light which they throw upon the character of the Ancient Hindus. They did not here appear as Dreamers and Preachers, but as a Nation of Conquerors. While it was true that the first inspiration of the Indian Propaganda in foreign countries was due to Buddhism, it was necessary to note that the most ancient of the Inscriptions of Cambodia were Brahmanical.

The President laid on the table a copy of Sir W. Hunter's life of Bryan Hodgson, regarding which Professor Bendall gave some interesting particulars. The President also announced that M. Cordier intended to publish a new edition of Col. Yule's translation of the Travels of Marco Polo.

Dr. Stein laid on the table a copy of the first volume of his translation of the *Rājatarangīnī*, and explained the valuable maps which accompanied it. These maps will also appear in the Journal of this Society, and it is not necessary for me to dwell here on their excellence and importance. At the afternoon meeting the following resolution was carried unanimously regarding this work:—

"The Section expresses its thanks to the Panjab University and to the Government of Kashmir for the valuable aid which, on the recommendation of the Oriental Congress held at Geneva, they have given to the labours of Dr. Stein, in enabling him to complete his translation of the *Rājatarangīnī* and to carry out his topographical enquiries.

"At the same time, it expresses the hope that opportunities will be given to him to complete the work by adding an Historical Introduction."

Professor Leumann read a paper on the meaning of the two Jain terms "*avassiyā*" and "*nisiciyā*." He proposed new derivations for these two words, and drew attention to the fact that the ceremonies which they indicate have close analogies in the Roman Catholic Service. It was resolved that "the Section considers that it is of urgent importance to publish a critical edition of the sacred books of the Jains."

Afternoon.

Mr. Sewell read a note on places in the Madras Presidency where there were Archæological remains which required investigation. Resolved that the attention of the Madras Government should be drawn to the desirability of excavating these remains.

I then had the honour of myself reading a short report on the progress of the Linguistic Survey of India, which had been first suggested by the Oriental Congress held at Vienna in 1886. A discussion followed in which Lord Reay, Prof. Pischel, Dr. Burgess, Prof. Kuhn, and Dr. Buehler joined. The following resolution was proposed by Prof. Kuhn, seconded by Dr. Buehler and carried unanimously :—

“The Indian Section of the 11th International Congress of Orientalists expresses its grateful thanks to the Government of India for having adopted the Resolution passed at the Congress held at Vienna in 1886, recommending the undertaking of a Systematic Survey of the Languages of India. It again desires to place on record the services to Linguistic Science which will be rendered by the Scheme, when it has been brought to completion.”

Baron Textor de Ravisi read a paper on “A mural Inscription in the Temple of Udaipur in Malwa.” It was resolved that, “Considering the historical importance of this inscription, and that there are two contradictory translations of it, *viz.*, that of Kamala-kanta (for the Bengal Asiatic Society), and that of Father R. P. Burthey (of the Society of Jesus), the Asiatic Society of Bengal should be requested to take steps to obtain an accurate copy of this inscription, for comparison with that published by Prinsep and published in his Essays.”

Dr. Lueders offered some remarks on King Nami, and endeavoured to prove that the prose of the *Jātakas*, which is certainly posterior to that of the *Gāthās*, was composed in Ceylon. M. Feer then read a paper on the *Jātakas* in the Works of Hiuen Tsiang. He was followed by Mr. Wickremasingha on the development of the Singalese Alphabet. A resolution was then passed thanking the Government of Ceylon for the publication of its Archæological Reports and of the *Mahāvam̃sa*. The Section expressed the hope that the work so happily commenced would not be abandoned.

Mr. Dharmapala read a paper “On Thana.” He was followed by Dr. Oertel on the *Jaiminiya-brāhmaṇa*. The sitting concluded with a paper by M. Lavalée-Poussin on “Une Pratique des Tantras.” He described the various Buddhist Tantric Schools (*anuttarayōgatantras*).

The Section before breaking up for the day passed the resolution regarding Dr. Stein’s translation of the *Rājataranṅinī* already referred to.

Saturday, 11th September.

The last meeting of the Section took place on Saturday morning. Professor Rhys Davids commenced by discussing the alleged persecutions of Indian Buddhists by the Brāhmins, and came to the conclusion that they were not proved. He incidentally discussed the meaning of the "anāgata-bhayāni" of the Bhabra Edict of Asoka.

M. Sylvain Lévi laid on the table papers by Mahāmahōpadhyāya Mahāçacandra Nyāyaratna, Mr. P. O. Mukherjee, and Pandit Haraprasād Çāstrī. They were accepted with a vote of thanks "à ces collaborateurs lointains."

M. Senart then laid on the table a paper by Dr. Hoernle, C.I.E., on ancient MSS. lately discovered in Central Asia. He laid stress on the importance of the MSS., and on the interesting character of the paper.\*

There followed a vote of thanks to the University of Lyons for publishing the *Bhāratiya-nāṭya-çāstra* in its "Annales."

The Section then closed its sittings with a vote of thanks to the President.

5. For the sake of completeness, I take the liberty of extracting the following notice of the principal papers read in the other Sections, of which I was not a member, from the excellent report given in the *Athenæum* :—

"In Section Ib. (Iran) far less work was to be done. A paper of Mr. A. W. Jackson may be mentioned, following out Darmesteter's idea of the connexion between the Indian epics and the early Persian legends.

In Section IIa. (China, &c.), may be noticed M. Déveria's paper on the Manichæans in China. M. Boell also made some notes on the Lolo script.

In Section IIb. (Indo-China) M. Aymonier's paper on King Yaçō-varman and M. Feer's notes on illustrations of the *Jātakas* in Siam deserve mention.

In the far larger Section III. (*langues musulmanes*), presided over by Prof. de Goeje, the proceedings commenced by a paper proposing a new derivation of the word *zendik* from the Aramaic *zadiq*. The prominent feature of the section's sittings was, however, the announcement by Prof. Goldziher of a detailed project for the revival of the great encyclopædia of Islam originally conceived by the late Professor Robertson Smith. The President communicated notes on two MSS. of

\* This paper is published in the Society's *Journal*, Part I, for 1897, No. 4.

the important work of the Arab historian Ibn-al-Mujawir. The communications of MM. Karabacek and Houdas, confirming the Indian origin of the Arabic numeral figures, were noteworthy. Mention was also made of recent works undertaken for the study of the mosques and of the basilicas existing in Tunisia.

In Section IVa. (Semitic), where Prof. Guidi presided, Dr. Ginsburg presented a fragment of a Hebrew MS. of Ecclesiasticus discovered by Mrs. Lewis and her sister. Later on M. Halévy called attention to the great importance of the discovery for the literary history of the Bible. A resolution was passed in furtherance of a critical edition of the Talmud. On the following day another resolution was passed in favour of a meeting in 1899 of Semitic scholars in Palestine. The communications of M. Schwab on the Meghillat Taut and Dr. Haupt on the Hebrew *pluralis majestatis* also deserve mention.

In the small Section IVb. (Assyriology) the president was Dr. Tiele, with Messrs. Pinches, Hommel, and Haupt as vice-presidents. M. Scheil gave an account of his recent discoveries in the East, and Mr. Pinches spoke of his proposed series of texts from private collections. The thanks of the section were voted to Hamdi Bey, the Turkish director of excavations, for his services to archæology.

In Section V. (Egypt and African Languages) M. Naville presided. Here the great event was the description (already foreshadowed at the general sitting on Monday) by Dr. Erman of his proposed Thesaurus, to be published by the German Government and directed by a committee of the academies of Berlin, Leipzig, Göttingen, and Munich. It is to deal with words from hieroglyphic and hieratic texts, and its full publication will take some sixteen years. M. Sethe's paper on the alleged occurrence of the names of Ousaphais and Mibis on certain early vases excited considerable interest.

The sections of Grèce-Orient (VI.) and Ethnography (VII.) were presided over by M. Bikélas and Dr. Vambéry respectively."

6. In connexion with Linguistics, I wish to draw prominent attention to the Laboratory of Experimental Phonetics in the Collège de France. It is open to students of all nationalities. There is a machine there which should certainly be vigorously employed in India. It is the invention of the Abbé Rousselot, and its object is the mechanical registration of all sounds, showing graphically the component parts of each. It may most easily be described as based on the principal of the Phonograph or of the Graphophone which have frequently been exhibited in Calcutta. We know that in these machines, a stylus set in motion by a diaphragm makes certain marks on a revolving cylinder. This is exactly what is done in the Abbé Rousselot's machine, but the



marks are made on smoked paper, and the vibrations of the stylus are considerably magnified before impression. The actual forms of the marks are thus rendered visible through an ordinary magnifying glass. In this way it is seen that each vowel makes its own peculiar mark. There are separate stylus for the lips, the throat, the nose, and so on, each of which is only thrown into action when the organ with which it is connected is used. A sound can thus be most accurately analysed out, both as regards consonantal and vocalic elements. There are other appliances subsidiary to the main machine, which I have not room to mention here. For instance, there is an artificial palate, which records the exact place of the palate which is touched by the tongue in uttering a palatal or cerebral sound. I strongly recommend that the Society should obtain one of these machines if possible, and carry on investigations into the sounds employed in the various Indian Languages.

7. In this report, I have of necessity confined myself to the scientific side of the Congress, but it would ill become me if I did not refer to the gracious hospitality shown to us all by our Parisian hosts. Nothing could exceed the kindness shown to us, and, to me, personally, this was enhanced by frequent opportunities of renewing old acquaintances and of meeting old and valued friends.

I have the honour to be,

SIR,

Your most obedient Servant,

GEORGE A. GRIERSON.

## CONGRÈS INTERNATIONAL DES ORIENTALISTES

XI<sup>ME</sup> SESSION—PARIS—1897.

*Discours D'Ouverture*

de

M. LE PRÉSIDENT DE LA XI<sup>E</sup> SESSION.

*Du Congrès International.*

des Orientalistes.

Mes premières paroles, dans cette séance d'ouverture du onzième Congrès international des Orientalistes, seront des paroles de remerciement pour les savants qui, de toutes les parties du monde, se sont rendus à l'appel qui leur a été adressé.

Je dois aussi, au nom du Comité d'organisation, faire agréer les expressions de notre gratitude aux chefs d'États et aux princes qui ont bien voulu, par leur adhésion, donner un témoignage de l'intérêt qu'ils portent aux progrès de nos études.

M. le Président de la République s'est déclaré le Protecteur de notre Congrès. S. M. le roi de Suède et Norvège, qui nous a, il y a quelques années, accordé une si large et si gracieuse hospitalité, S. M. le chah de Perse, S. A. R. M<sup>re</sup> le Prince de Galles, S. A. I. et R. l'archiduc Renier, dont le bienveillant accueil demeure gravé dans tous les souvenirs, S. A. I. le grand-duc Constantin, qui porte à toutes les branches des connaissances humaines un si puissant intérêt, S. A. I. le Prince Kan-In et S. A. le Khédive d'Égypte ont daigné accepter le titre de Présidents d'honneur. Il est de notre devoir de leur adresser en ce jour l'hommage de notre gratitude. Les ministres et les représentants d'un grand nombre d'États figurent parmi les membres d'honneur, et les Universités et les corps savants du monde entier ont désigné des délégués pour les représenter au Congrès : nous ne saurions laisser échapper l'occasion qui s'offre aujourd'hui à nous de leur donner un témoignage public de nos vives sympathies.

L'idée de réunir, à des époques fixées à l'avance, les savants qui font des langues, des croyances, de l'histoire et de la littérature des peuples de l'Orient, l'objet de leurs études, a été émise pour la première fois à Paris, il y a près de vingt-cinq ans. Je ne vous rappellerai pas le nom du professeur qui en a été l'instigateur ; il est connu de vous tous et il est le témoin du succès qui a couronné son initiative.

Le premier Congrès de Paris fut suivi, deux ans après, par celui de Londres, et les matières qui y furent traitées parurent présenter assez d'intérêt pour qu'à la demande de feu M. Grigoriew, le Gouvernement russe proposât aux différents États de l'Europe d'accorder aux Congrès internationaux d'Orientalistes un appui efficace et de s'y faire représenter. Cette proposition reçut un assentiment général et presque toutes les capitales de l'Europe ont successivement accordé aux Orientalistes une cordiale et généreuse hospitalité.

Aujourd'hui, le Congrès se réunit dans son lieu d'origine et c'est avec une satisfaction sans mélange que nous constatons les heureux résultats obtenus pendant une période de près de vingt-cinq ans.

Des relations personnelles se sont établies entre les érudits venus de différents pays : elles se sont converties, pour la plupart, en solides amitiés. Des documents scientifiques d'une grande valeur, des découvertes d'un haut intérêt ont été communiqués et mis en lumière, enfin des idées fécondes ont été émises au sujet de publications qu'il était utile d'entreprendre.

Nous pouvons aujourd'hui constater, avec un vif plaisir, les progrès accomplis dans les études orientales pendant ce quart de siècle et apprécier l'importance des travaux dont elles ont été l'objet. Les langues sémitiques ont été, comme par le passé, le sujet de sérieux

ouvrages. La publication du texte arabe d'un historien de premier ordre, celle des ouvrages géographiques que nous ont laissés des voyageurs des premiers siècles de l'islamisme, nous permettent d'avoir maintenant une connaissance exacte de l'empire des khalifes Abbassides et des événements qui s'y sont déroulés jusqu'aux premières années du 14<sup>e</sup> siècle de l'hégire. D'autres ouvrages, d'une étendue moins considérable, et relatifs à l'histoire, à la poésie et à la grammaire arabes, ont aussi vu le jour tout récemment et de nombreux mémoires de numismatique et d'épigraphie ont permis de fixer quelques dates d'une manière certaine et de rectifier des inexactitudes. Les langues, la géographie, l'histoire et l'archéologie de l'Afrique du Nord ont donné naissance de leur côté à une série de publications qui ont attiré, sur cette région, l'attention des savants.

L'étude du persan n'a été négligée, ni sous le rapport de l'histoire ni sous celui de la poésie, et différents dialectes persans ont été pour la première fois le sujet de travaux sérieux : je dois, au sujet de la langue turque, signaler l'importance des découvertes épigraphiques faites dans le cours de ces dernières années, dans la région des sources de l'Orkhon et dans la Mongolie; elles ont fourni la matière de dissertations très intéressantes et elles ont jeté de vives lumières sur le dialecte des Turcs Toukioué, dont les origines et l'histoire n'ont été retracées que d'une manière très confuse par les écrivains chinois.

Les études indiennes brillent d'un nouvel éclat : la langue classique, les différents dialectes, l'organisation sociale des peuples divers fixés sur le sol de l'Inde, l'archéologie, l'épigraphie et l'étude des doctrines religieuses ont provoqué des travaux dont on ne saurait trop louer le mérite. Enfin, la langue et l'histoire des pays malais ont été l'objet de recherches approfondies.

J'ai cru devoir mentionner d'abord les langues sur l'étude desquelles se sont concentrés les efforts de nos prédécesseurs; mais, vous pourrez reconnaître, Messieurs, par le nombre et la variété des communications qui vous seront faites, combien sont considérables les progrès réalisés dans l'égyptologie depuis Champollion, de Rougé et Mariette. L'importance des faits révélés par l'assyriologie au point de vue de la chronologie, de l'histoire et des conditions sociales de l'Assyrie et de la Chaldée, fixeront l'attention du Congrès, ainsi que les monuments de l'Asie Mineure étudiés depuis peu.

Les travaux relatifs aux contrées de l'Extrême-Orient n'ont point été moins importants ni leurs résultats moins fructueux. Un jeune érudit a entrepris la traduction d'un historien qui jouit en Chine de la plus grande réputation. Nous faisons les vœux les plus ardents pour qu'il puisse reprendre bientôt un travail qu'il a interrompu à regret.

Des inscriptions chinoises ont éclairci certains points curieux d'archéologie, et un recueil épigraphique, publié grâce à la munificence éclairée d'un des membres d'honneur du Congrès, offre un nouveau champ d'investigations à la perspicacité des sinologues.

La littérature de la Corée vient aussi de nous être révélée grâce à la publication d'un ouvrage considérable, fruit de longues et patientes recherches. Il me faut enfin, en terminant ce très rapide exposé, signaler les excellents travaux dus aux recherches des agents européens en Indo-Chine.

Il me reste à rendre hommage à l'esprit qui a caractérisé les dix premiers Congrès des Orientalistes. On s'est fait une loi, toujours observée, de professer la tolérance la plus large et le respect le plus absolu pour les opinions et les idées de chacun des membres. Les croyances sont diverses, mais toutes ont droit à nos justes égards. Nous ne nous écarterons pas des sages principes de concorde et de paix, et tous nos efforts tendront à ce que la courte hospitalité que nous vous offrons, vous soit douce et laisse un souvenir durable dans vos esprits.

C'est en formant ce vœu que je déclare ouverte la onzième session du Congrès international des Orientalistes.

CH. SCHEFER,

*Membre de l'Institut, Président.*

THE PRESIDENT exhibited a silver coin forwarded by the Revenue Secretary to the Government of Burma and read the following note on it.

This coin is one of several which were found a few months ago in the Shwebo District. Two others, of two different sizes, have been presented by the Burmese Government to the Indian Museum. They belong to the class of so-called symbolical coins. These coins have been described, and figured by Captain Latter in the *Journal Asiatic Society*, Bengal, Vol. XV, page 238, and more largely by Sir Arthur Phayre in the *International Numismata Orientalia*. The peculiar interest of these coins is that no symbolic coin of quite the same type has previously been discovered or (at least) noticed. They represent a new type, and accordingly are of considerable Numismatic value.

THE PHILOLOGICAL SECRETARY read the following communications concerning the date of an Inscription of Narasimha Dēva II., published by Babu N. N. Vasu in *Journal*, Vol. LXV, 1896, Part I, page 229 ff.):

Professor F. Kielhorn, Ph.D., LL.D., C.I.E., Göttingen writes:—

The Kēndupāṭṇa plates of the Ganga King Narasimha II., for an edition of which we are indebted to Mr. Nāgendra-Nātha Vasu, are

dated in the Çaka year 1217, on Monday, the 6th *tithi* of the bright half of the month of Simha. According to the editor of the inscription (*ibid.* p. 230), this date corresponds to Monday, the 19th September A.D. 1295. May I venture to state that this is incorrect? In A.D. 1295 the month of Simha lasted from the 30th July to the 29th August, and the *tithi* which ended on the 19th September, 1295, was the 10th, not the 6th, of the bright half.

In reality, the original date would be wrong for Çaka 1217, both current and expired, and there can be no doubt that the year 1217 has been wrongly quoted in the plates instead of 1218 expired, and that the intended date is Monday, the 6th August A.D. 1296. We find the same mistake in the Puri plates of Narasiṃha IV. (*Journal*, Vol. LXIV, Part I, p. 151), where the Çaka year 1316 has been wrongly quoted instead of 1317, and I have given numerous similar dates in my paper on the Çaka era in the *Indian Antiquary*.

Babu M. M. Chakravartti writes:—

The date of this inscription does not appear to me correctly calculated. It is put down as 19th September, 1295 A.D. (p. 230), but on what grounds is not clear. On the other hand Jacobi's tables give a different date. The date of our inscription is *Simha çukla 6, Monday*. In 1295 A.D. this *tithi* fell on 17th August, which was Wednesday and not Monday, consequently 1295 A.D. could not have been the date. But in 1296 A.D. *Simha çukla 6* fell exactly on Monday, the 6th August. Hence if 1217 be taken as an expired Çaka year, the correct date is

6th August, 1296 A.D.

Again the *aṅka* has been translated as *year*, but in the note to my article on the Uṛiyā inscriptions of 14th and 15th centuries, I have pointed out what an *aṅka* really means in Orissa. It is a curious kind of regnal year in which certain figures such as 1, 6, 16, 20, &c., are omitted.

The prose portion of the grant contains several words which are distinctly Uṛiyā, and these words differ little from the modern Uṛiyā words, e.g., *nabar* (palace), *naḷa* (reed which was the standard of measurement), *bātikā* (mod. *bāti*=20 acres nearly), *māṇa* (=an acre nearly), *gunṭha* ( $\frac{1}{16}$ th of a *māṇa*), *hiḍa* (ridge of fields), *gōhari* (mod. *gohari* or low waste land used as path), *daṇḍā* (high waste land used as path), *kōmati* (mod. *kūmti*, a Telugu caste), and so forth. So far as these words go, the Uṛiyā language must have been fully developed by that time. Several of the Uṛiyā words have proved stumbling blocks to Nāgendra Babu in his translation.

It is curious to find so many of the names Telugu, for instance Kōmati, Amnai, Uadai, Talang-grām, Nādi, &c. This fact clearly indi-

cates that Telingana and Orissa were under the same rule, and that many of the officers happened to be Telugu. Presumably Orissa was considered as an appendage to Kalinga.

Of the Cāṭṣvara inscription noticed in p. 234, I secured a transcript and have made a decipherment. But as Nagendra Babu promises to edit it in this *Journal*, and as I have no leisure, I leave the task to him. He ascribes the inscription to the reign of Ananṅa Bhīma II., and probably rightly, but he will have to get over the difficulty presented by Stanza 8, lines 6-7, in which Ananṅa Bhīma is described as the *सुनु* of Cōḍaganga. *सुनु* usually means son. But Ananṅa Bhīma II. is not the son but great-grandson of Cōḍaganga. Possibly *सुनु* may be taken to mean a descendant. Another difficulty will be found in the dates. According to the inscriptions Ananṅa Bhīma II., ruled from 1219 to 1242 or 43 A.D. But the raid to Lakhnauti and the first battle with Tughril-i-Tughān Khān took place in 642 H. or 1244 A.D., consequently neither Ananṅa Bhīma II. nor any of his ministers could have made the invasion recorded by the Minhāj-i-sirāj, unless either of these dates be found wrong.

The present inscription does not clear the discrepancy I pointed out in my article regarding the years of reigns. Taking Kāmārṇava to begin his reign in 1064 Śaka or 1142 A.D. (stanza 37), the total of the years of reign (152) makes the accession of Narasimha Dēva II. at (1142+152 or) 1294 A.D. But this is absurd, as 1296 was his 21st Anka or 17th year of reign. I trust Nāgendra Babu will be able in his next article to find out a solution of this apparent absurdity. The early Mussulman historians rarely mention the names of Hindu kings, and until the dates are established, no reliable connection can be laid down between Hindu chronicles and Mussulman histories,

The following papers were read:—

1. *The Nowgong Copper-plate grant of Bala Varman of Prāgyyōtiṣa in Āsām. With 3 Plates.*—By DR. A. F. R. HOERNLE, C.I.E.
2. *On certain Palm-leaf MSS. in the Library of H. E. the Mahārāja of Nepaul.*—By PAṆDIT HARAPRASĀD CASTRĪ.
3. *Numismatic Notes and Novelties, No. 2.*—By V. A. SMITH, I.C.S. The papers will be published in the *Journal*, Part I.
4. *The Jering fruit (Pithecolobium lobatum Benth.)*—By H. N. RIDLEY, Esq., Director of the Botanic Gardens, Singapore. Communicated by SURG.-MAJ. D. PRIN.

In the last number of the *Materials for a Flora of the Malayan Peninsula* (*Journal*, Part II; Vol. lxvi, p. 267) several questions are proposed

by Dr. Prain concerning this fruit, and what part of it is eaten by the Natives. I have some doubts as to the tree being wild here; it is very common in and round villages, and the squirrels often carry the seed in their mouths to some distance and dropping it only partly nibbled disperse the plant everywhere, but I have never seen it far in the jungles. There is no pulp or arillus on the seed, nor is the pod eaten at all. The ripe seeds are boiled with wood ashes two or three times on successive days, before being eaten. Many Malays are very fond of it, although it exhales a foetid odour, which is communicated to the eater, and especially to his urine. The smell is so nauseous that in camp we always forbade the Malays to bring this fruit or the pods of *Parkia speciosa* Hassk., which produce the same effect, into camp. If not properly prepared the Jering produces diarrhoea and sickness, and if too much is eaten stricture, for which *Alchornea villosa*, Müll. is considered an antidote. It is always diuretic, and often causes the urine to have a milky colour. Many Malays are unable to eat it at all as it always makes them ill, and indeed it seems always to require some practice, as persons unaccustomed to it suffer. The Malays say that it tastes like chestnuts, and it is curious that they should be so fond of such a detestable food, if it is no more attractive than this. The more aristocratic Malays will not eat it, and I am told it is forbidden to Hadjis.

The pods of *Parkia speciosa* are more popular, and a more expensive dish. They are cut up and cooked with curry stuffs. Though they cause the eater to exhale a very similar nauseous odour, they are said not to be so diuretic, nor to produce sickness like the Jering, though in excess they cause diarrhoea. They are called "Petai." The tree is certainly wild here, and not very often cultivated, but wild trees are often enclosed or claimed by some Malay who makes an orchard round them.

Dr. Prain, who is unable to be present at this meeting communicates the following remarks on Mr. Ridley's extremely interesting note:—

The questions proposed by me were:—"Is it the succulent pod" (as Jack's account seems to imply), "a fleshy pulp" (as has usually been stated), "or the seed itself of *Jiring*" (as said by Koorders and Valeton) "that is eaten? And has *Jiring* any pulp at all? If so, is this pulp an arillus?"

Mr. Ridley's reply is clear. The seeds are eaten cooked, as Koorders and Valeton say, and "there is no pulp or arillus." The character of the seed of *Pithecolobium lobatum*, given by Bentham and copied by

Miguel, must be altered. I have already pointed out that, in Herbarium specimens, there is at no stage of the fruit any pulp visible, and Mr. Ridley now shows that Hasskarl's explanation of this absence of pulp from ripe pods is not only insufficient but inexact. The pulp does not disappear, it never was there.

We are thus left to face the question :—What is *Mimosa Kœringa*, the tree that Roxburgh describes as *having the seed enveloped in an edible fleshy aril*? Those best acquainted with Roxburgh's work are precisely those who are least likely to doubt that such a tree was known to Roxburgh, for if the description of the tree itself be brief, the statement regarding the seed is sufficiently precise. If that description be accurate, then certainly the tree which Roxburgh knew as *Kœringa* cannot well be the *Jiring*, which moreover Roxburgh appears to have known since, though he did not describe it, he named it *Mimosa Djiringa*. We must therefore appeal once more for help to Mr. Ridley and our other botanical colleagues in Malaya.

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### LIBRARY.

The following additions have been made to the Library since the meeting held in August last.

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*presented by the respective Societies and Editors.*

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PROCEEDINGS  
OF THE  
ASIATIC SOCIETY OF BENGAL,  
FOR DECEMBER, 1897.

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The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 1st December, 1897, at 9 P.M.

DR. A. F. R. HOERNLE, C.I.E., President, in the chair.

The following members were present :—

Dr. A. Alcock, H. K. W. Arnold, Esq., Dr. T. Bloch, F. Finn, Esq., The Rev. H. B. Hyde, C. Little, Esq., L. de Nicéville, Esq., R. D. Oldham, Esq., A. T. Pringle, Esq., F. J. Rowe, Esq., Paṇḍit Haraprasād Cāstri, Paṇḍit Mahēndra Nāth Vidyānidhi.

*Visitor* :—Professor S. Lévi of Paris.

The minutes of the last meeting were read and confirmed.

Seventy-one presentations, were announced, details of which are given in the Library List appended.

The following gentlemen duly proposed and seconded at the last meeting of the Society were ballotted for and elected Ordinary Members :—

Captain Stuart H. Godfrey.

Mesroby S. Seth, Esq.

W. A. Talbot, Esq.

The following gentlemen are candidates for election at the next meeting :—

Captain P. R. T. Gurdon, Deputy Commissioner, Gauhati, proposed by E. A. Gait, Esq., seconded by Dr. A. F. R. Hoernle.

W. K. Dods, Esq., Hongkong and Shanghai Banking Corporation, proposed by F. Finn, Esq., seconded by Dr. A. Alcock.

The SECRETARY reported the death of the following members :—

S. E. Peal, Esq.

Captain E. Y. Watson, F.Z.S.

The PRESIDENT laid on the table a letter from Mr. Patrick J. Donnelly, giving probable dates of sailing of the "Orotava" in connection with the observation of the forthcoming total Solar Eclipse.

The PRESIDENT announced that Mr. F. Finn had resumed charge of his duties as Natural History Secretary from Mr. L. de Nicéville.

Paṇḍit Haraprasād Čāstri exhibited some ancient Burmese Inscribed Pottery.

The Reverend Dr. K. S. Macdonald obtained these three bricks or rather inscribed pottery in Upper Burma. The large broken one was obtained at Tagoung on the river Irrawaddy half way between Mandalay and Bhamo where any number of the same kind may any day be found. The large unbroken brick was picked up by his son along with others at Pagan, the old Capital of Burma. He had a number of these at his house in Myingyan. The third smaller one was picked up by the Doctor himself from among these. There is no inscription on the smaller one. There are five figures of Buddha sitting in what is known as the *bhūmispargā-mudrā* the earth touching pose or witness attitude calling the earth to bear witness to his devotion. The putting together of five sacred objects of the same kind is known among the Jains as *Pancatīrtha*. This is perhaps the first time that we find a *Pancatīrtha* among the Buddhists. The others contain inscriptions which consist only of the well-known formula of Buddhist faith, '*ye dharmā, &c.*' written in the character which was common in Eastern India during the reign of the Pāla kings. The peculiarity of the figure in the large unbroken brick is that Buddha is sitting with his legs hanging from his *Simhāsana* and resting on a foot-stool. Both the *Simhāsana* and the foot stool have the decoration of lotus leaves. This is rather an unusual position for Buddha. But we have in the Indian Museum in the Magadha Section of the Archaeological gallery no less than three statues of Buddha seated in the European fashion. Dr. Waddell in page 336 of his work entitled, 'Buddhism in Tibet,' says that this is the pose of Maitrēya the coming Buddha. The position of the hands indicates as if he was explaining something to his hearers with emphasis. The palm of his left hand is turned towards himself, while that of his right hand is turned towards his hearers with two fingers of the one resting on the two fingers of the other. I at first thought this to be one of the *mudrās*. But the explaining attitude accounts for the position of the hands better.

But the nature of the characters indicates that these bricks are not of Burmese manufacture. The cut of the faces of Buddha is Indian and not Burmese. It appears that these were taken away by Burmese pilgrims from Magadha and treasured up as holy souvenirs of their distant pilgrimage. I beg to draw the attention of the Society to these not so much for their intrinsic worth as for the prospect they hold out of finding things interesting to Indian antiquarians in such distant places as Pagan and Tagoung.

The following papers were read:—

1. *Notes on New Inscriptions, discovered by Major Deane.*—By M. A. STEIN, PH.D.

The paper will be published in the *Journal*, Part I.

2. *A List of the Butterflies of Bali, Lombok, Sumbawa, and Sumba.*—By LIONEL DE NICÉVILLE, F.E.S., C.M.Z.S., and H. J. ELWES, F.R.S., F.L.S., F.Z.S., F.E.S.

The paper will be published in the *Journal*, Part II.

3. *On the Kāçmīrī Noun.*—By G. A. GRIERSON, C.I.E., PH.D., I.C.S.

The paper will be published in the *Journal*, Part I.

4. *On the Manifestation of Social Instinct in the Common Babbler (Crateropus canorus).*—By B. B. OSMASTON, Indian Forest Service. Communicated by the Natural History Secretary.

The paper will be published in the *Journal*, Part II.

5. *Notes on the Language and Literature of Orissa.*—By MAN MOHAN CAKRAVATTI, Deputy Magistrate, Jajpur.

The paper will be published in the *Journal*, Part I.

6. *Notes on various species of Grebes, with especial reference to the powers of walking and digestion possessed by these birds, with Exhibition of Photograph and Specimen.*—By F. FINN, B.A., F.Z.S., Deputy Superintendent of the Indian Museum.

The paper will be published in the *Journal*, Part II.



## LIBRARY.

The following additions have been made to the Library since the meeting held in November last:—

## TRANSACTIONS, PROCEEDINGS AND JOURNALS,

*presented by the respective Societies and Editors.*

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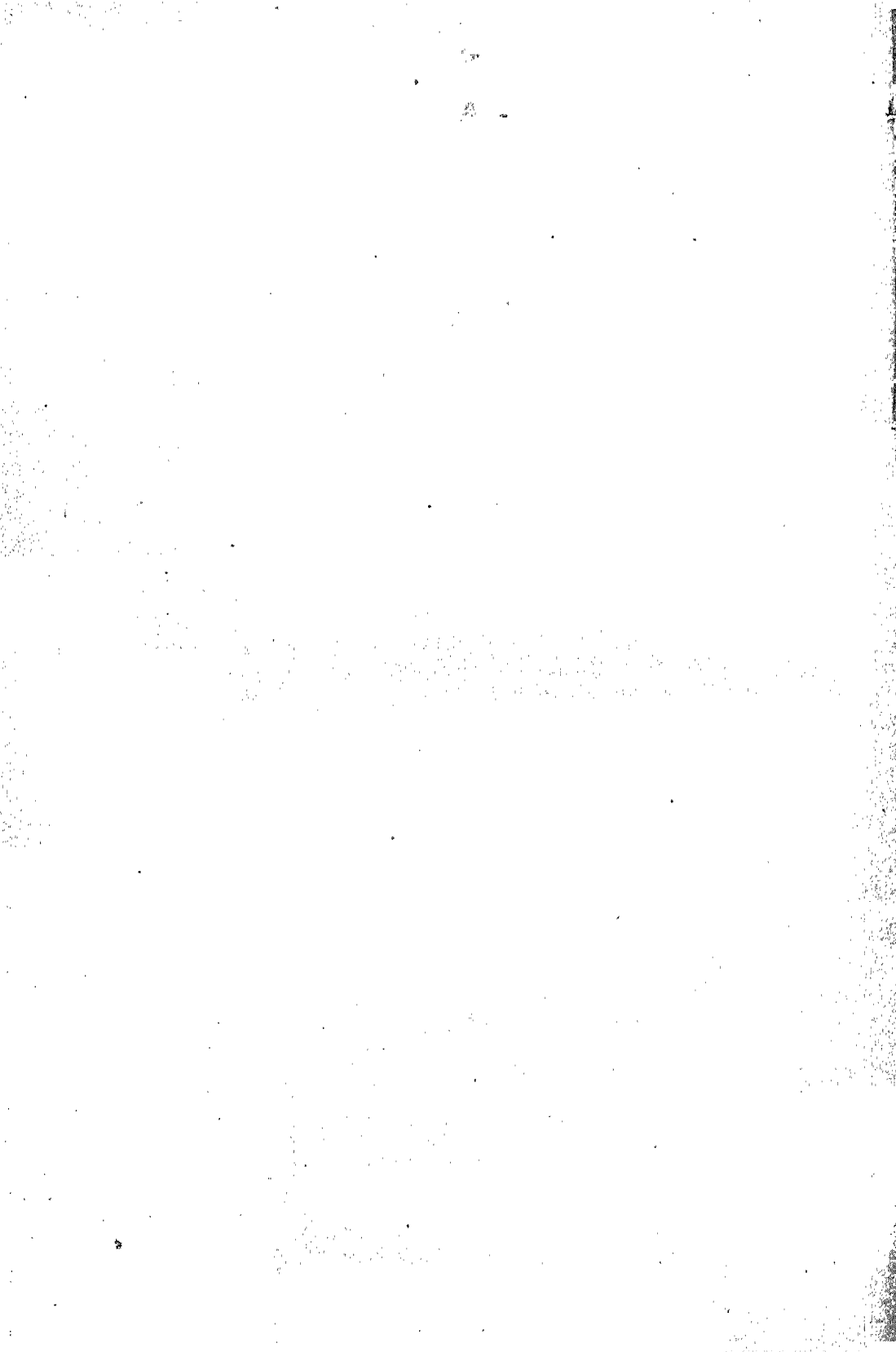
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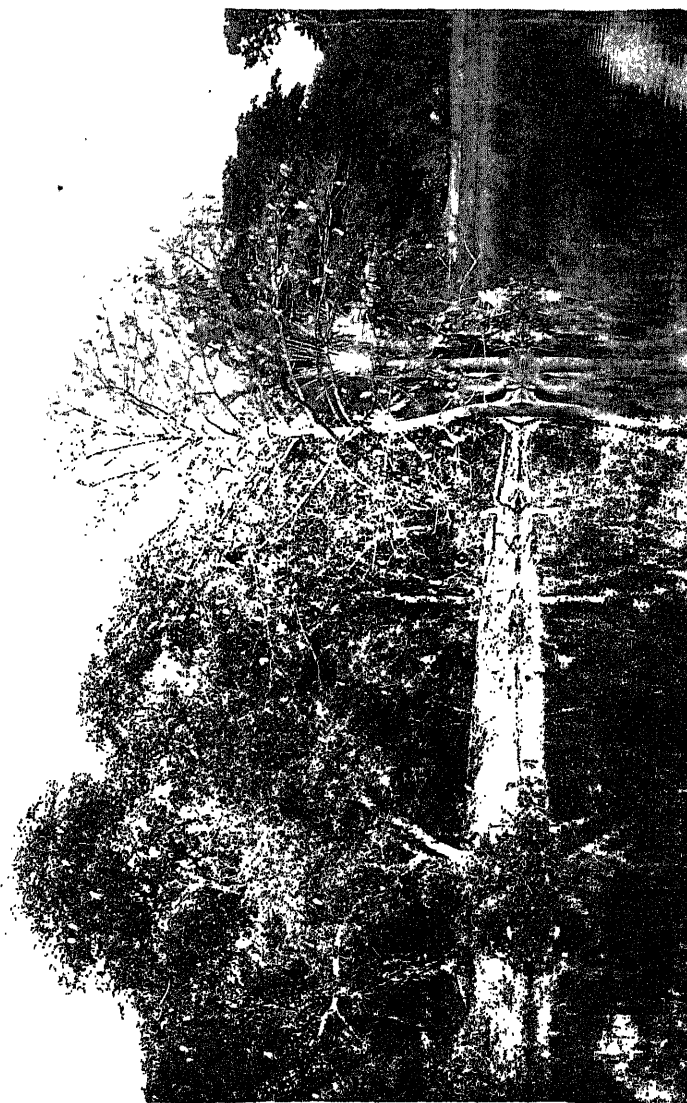


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HERONRY IN THE ZOOLOGICAL GARDEN - CALCUTTA.

From a negative by Col. J. Waterhouse S.C.

Survey of India Offices, Calcutta, April 1887.



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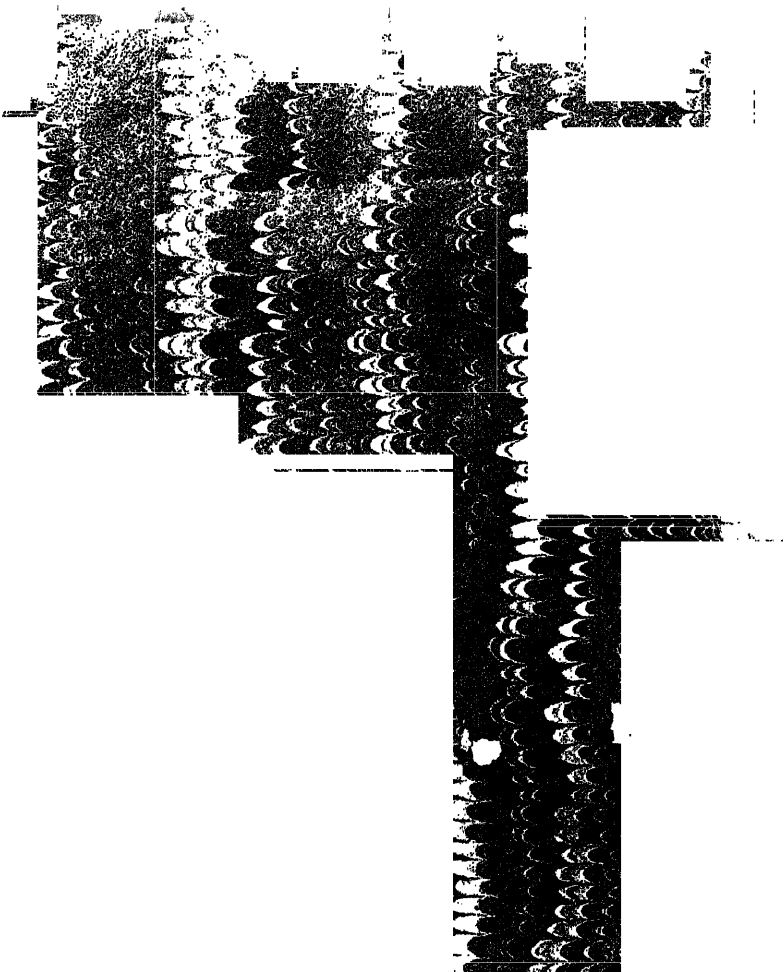
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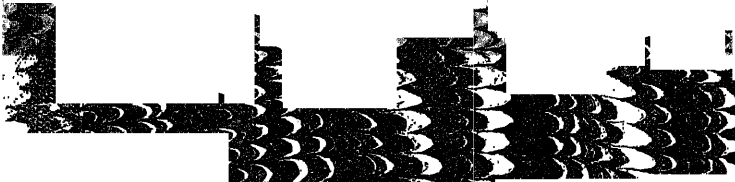


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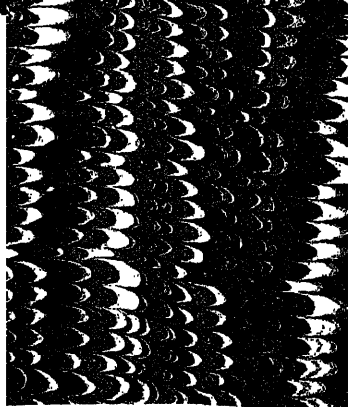
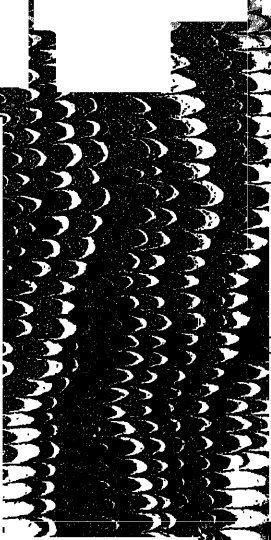


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